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# THE INDUSTRIOUS HEN

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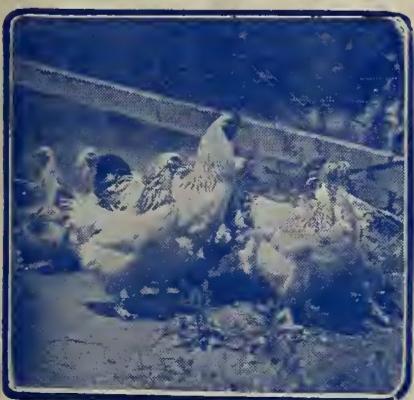
AN ILLUSTRATED MONTHLY  
FOR  
POULTRY, LIVE STOCK AND THE FARM

## TABLE OF CONTENTS

Starting a Poultry Business—Clipp .....	225
Cultivate Your Flock .....	225
Artificial Incubation—Boyer .....	226
Pin Money for the Poultryman's Wife .....	226
A Mid-Summer Night's Dream .....	226
Things to Remember .....	226
Childress' Egg Farm .....	227
Boyers' Poultry Talks .....	227
About Eggs .....	228
Hen vs. Railroad .....	228
Ready to Learn .....	228
Go Slow .....	228
Don't Expect Too Much .....	229
Dry Foods or Wet .....	229
An Egg Preservative—Thornhill .....	229
Timber Decay Costs Millions .....	229
Preserving the Good Will of Trade—Patterson .....	229
Knoxville's Successful Show .....	230
Profits in Poultry—Sheppard .....	231
Early Airedale Fanciers .....	232
The Country-Farm Poultryman—Payne .....	232
Poultry on the Farm .....	233
Bee Notes .....	234
Asheville Show Awards .....	238

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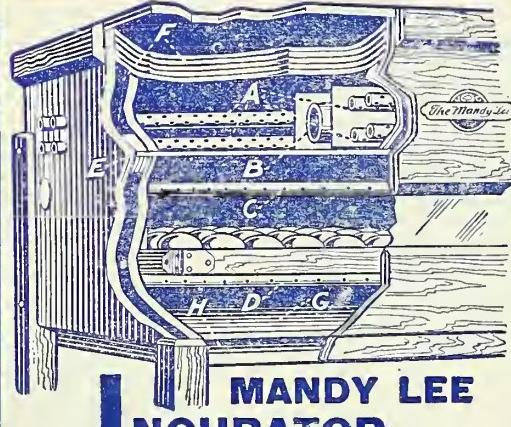
# WHAT WILL POULTRYMEN DO ABOUT IT?

During 1909 producers all over the United States received for eggs an average price of more than twenty cents a dozen. The lowest average price was April 1st—sixteen and four-fifths cents per dozen. Besides, the average price for chickens was about eleven cents per pound. These figures are from Government statistics—not an estimate of an over-enthusied poultryman. They prove that poultry raising is a recognized industry, extremely and permanently profitable. It is a business requiring small investment. The demand for pou-

try and eggs is growing from constantly increasing population, and there will always be a substantial profit-producing market. This opportunity is genuine, and comes to you. It is not made by market manipulations. The situation dictates (if not demands) that poultrymen increase their flocks—make the enterprise a real business enterprise. The situation is one of those rare ones where the demand precedes the production. It is time for a bigger harvest. There is always a market. **What Will Poultrymen Do About It?**

Geo. H. Lee wants to hear from you whether or not your plant can be increased this year. He has just written a book, Lee's "Chicken Talk," and his 1910 catalog is ready for distribution. He wants to send anyone interested a copy of each, BOTH FREE. In writing for these, do not hesitate to ask Mr. Lee's opinion or advice on anything where you think such would be of direct benefit to you. More than twenty years furnishes a ripe experience from which to draw, and he can render beneficial advice without obligating the inquirer in the least.

## THE TIME IS NOW HERE TO THINK, PLAN AND ACT!



**MANDY LEE INCUBATOR**

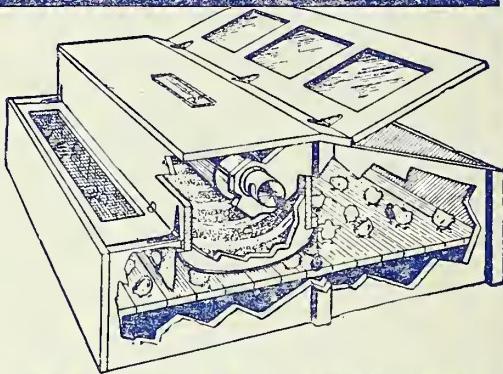
A—Perforated tubes, heating chamber. B—Inlet Pipe from heater. C—Upper ventilation, egg-chamber. D—Lower ventilation, egg-chamber. E—Airtight diaphragm. F—Packing in walls and top. G—Chick-nursery bottom. H—Duck-nursery bottom.

### THE MANDY LEE INCUBATOR FOR 1910

has our new moisture pan equipment which has withstood successfully the critical tests given it by Mr. Lee, and he now offers it, assuring customers that it has the real Lee merit. Each purchaser of a 1910 Mandy Lee Incubator will be given a Mandy Lee Hygrometer. This outfit makes artificial hatching a scientific certainty. The eggs that go into your Incubator are worth money, and, in justice to yourself, your hatching equipment should be the best that you can buy. **Don't lose sight of the fact** that Geo. H. Lee invented all for his own use—and uses them. They have made his poultry business a success. They do for others. They can do as much for you.

Mr. Lee wants you to know all about the Lee way of doing things and his inventions. Lee's "Chicken Talk," written by Geo. H. Lee, himself, is his latest book. It is free on request. With it we will send our 1910 catalog. From these two sources you can have a good understanding of what we want you to know and *why* we want you to know it. Write today. Both free by mail. Think, plan and act now.

**GENERAL AGENTS** in all principal cities.  
Send for name of one nearest you.



**MANDY LEE BROODER**

is evenly heated throughout and neither lamp fumes nor super-heated air ever touch the chicks. The heat reaches the blanket in such a manner as to make over-heating impossible. A poultryman can afford to discard an impractical brooder and install a Mandy Lee. The extra chicks you raise will pay for it. No smoke, no gas, even heat everywhere, well-built, economical in every respect. Compare it with any make, anywhere. You want results. The Mandy Lee Brooder produces nothing else. It does what it is sold to do.

**GEO. H. LEE CO., 1113 Harney Street, OMAHA, NEB.**

## LANGFORD'S RHODE ISLAND REDS

Have won more prizes in the big shows of the South than all others. Winners at Madison Square Garden, New York, Boston, Great Jamestown Show, Nashville, Atlanta, Charleston, Ft. Worth; a clean sweep at Louisville, 1909; a clean sweep at Memphis, 1908, the \$50.00 Cup and \$25.00 Gold Special; Tenn. State Fair, etc. *My matings are the best I ever owned. Eggs for sale. New catalogue free.*

**FRANK LANGFORD, R. R. 10, NASHVILLE, TENN.**

## HAZEN'S HIGH-SCORING WHITE ROCKS

My winnings at the Knoxville Show, January, 1910, were: 1st cock, 2nd and 4th cockerel, 2nd and 3rd hen, 3rd and 4th pullet and 1st and 4th pen. Stock for sale. Eggs \$1.50 to \$3.00 per setting. Write me. (Member White Rock Club).

**FLEM HAZEN, Jr.,**

**Route 2,**

**KNOXVILLE, TENN.**

## RYLAND'S SINGLE COMB WHITE LEGHORNS

Have won in every show they have been entered; not once have they gone without a place. Twice this year I have been against Madison Square Garden winners. I have a large number of cockerels and in order to move some, will for 30 days make a *special price on a few trios at \$7.50 or pens at \$10.00*. First come, first served. They will not last long. Catalogue and list of winnings sent on request. *Eggs in any quantity. I do nothing else but raise chickens.*

**A. P. RYLAND, The Chicken Man, Pine Hill Farm, PINE BLUFF, ARK.**

# THE INDUSTRIOUS HEN

An Illustrated Monthly for Poultry, Live Stock and the Farm

Vol. 6

Knoxville, Tenn., January, 1910

(Whole No. 68)

No. 8

## STARTING A POULTRY BUSINESS

WRITTEN FOR THE INDUSTRIOUS HEN BY J. C. CLIPP, SALTILLO, IND.

If you are a novice and wish to venture into the poultry business, don't get the idea that you must start with a number of different varieties. Not long since, a young man visited my yards with a view of gaining some information along poultry lines. One of his questions was, "Can't a man make considerably more with a number of breeds?" Possibly more amateur breeders consult themselves upon this one question than most any other one thing. It is a fact that there are a number of breeders that are making a fortune, so to speak, from the results of breeding a number of varieties. But remember that men who make a success with more than one variety are very rare. To make a success of breeding a number of varieties requires a great amount of natural business ability as well as a thorough knowledge of mating and handling thoroughbred poultry.

While on the Pacific Coast last year judging shows, I met up with every variety of the Polish family, owned and bred by one lady, and I am told she is making quite a success of the business. While there are many others that I might mention that are well known breeders of several different varieties and that are making a nice living, there are thousands that have attempted the venture only to fail. If you desire to start in with pure bred fowls, begin with only one variety. Remember it requires considerably more labor, expense and skill to intelligently breed several varieties. After you have once mastered the art of breeding one variety, then possibly you are competent to handle several varieties, or able to add one more to your list at least. Bear in mind that it requires five times as much expense to handle two or more breeds than one; consequently I would consider the question of handling more than one breed with a considerable amount of caution, as venturing too far has been the cause of hundreds of good men going to the "wall." I would prefer to put all my force into one breed, and at the same time familiarize myself with all the standard varieties. It's the specialty breeder that is making the "hit" in poultry keeping in this age. Where there is but one breed kept there is no danger of a mixture. The buying public is aware of this fact and will patronize the specialty breeder in preference to the breeder who is handling several varieties. In a majority of instances, you will get better quality from the specialist than from the general breeder. Some years ago I purchased one hundred eggs from a breeder that was breeding Buff Plymouth Rocks and Golden Wyandottes. In view of the fact that I was buying Buff Rock eggs I was surprised as well as disappointed to find at hatching time I had a mixed lot of fowls. Some of the chicks were a cross between the Buff Rocks and Golden Wyandottes, while a number of them were pure Wyandottes. Consequently the experience I had with the breeder of several varieties put me out with the general breeder for ever. Of course there are exceptions to all rules. I know of men that are handling several varieties and have for years and never in the history of their business did they ever let go any mixed eggs. Some men are no more fit for fancy poultry breeding than I would be for locomotive engineering, it's very true; but in a majority of instances you will get a better deal from the specialist. The most successful poultrymen we have today are those who are making one breed their life study. The majority of specialists are making a strong effort to keep only the best,

while the breeder of several varieties finds the expense too great to keep the very best of all varieties. The specialty breeder can more easily detect the defects in one breed than in several, unless he is of unusual intelligence. Of course the breeder of several varieties will say frequent observations will make such strong impressions on the mind that he cannot help but detect the defects in several varieties as readily as in one breed; but I question this argument. No breeder, unless he has had many years of constant experience with several breeds can so readily detect the defects in several varieties as well as those in one variety. However, if you prefer to handle several breeds, as is the determination with some, I would study carefully all the characteristics of the various breeds I wished to handle and keep only the best, as you will soon learn that the best readily sells for good money, while the inferior kind is a drag at any price. If you are in limited circumstances, by all means let well enough alone and put all your money and attention into one breed. It will be better to approach success slowly than failure at a rapid speed. You have greater responsibilities with several varieties than with one. Hence, I would not think of handling but one breed until you experience several years in breeding fancy fowls. I am aware that the majority of us have a weakness for all there is in sight. But remember, "it's not what we want that does us the most good; it's what we get." The specialist along every avenue of business is the one that gets the largest business in this day and age.

### CULTIVATE YOUR FLOCK

Do you know that hens appreciate the amenities of life in some measure the same as you do? All animals have this susceptibility more than we give them credit for. A cat or a dog knows when it is welcome in the master's presence the same as he does. Who has not received from his cat or dog an unmistakable look of reproach, when, instead of the expected caress, it was ordered away? I know of a woman who sings to her cows when milking, and claims that it results in a greater flow of the white nectar. There are persons who claim that hens will lay more eggs when you talk to them and pet them. I don't think there can be any doubt about the truth of this, for we know that a happy state of mind promotes activity in the life processes of the physical system and this includes the production of eggs. No; you can make no mistake by being good to your hens.

### FAT HENS

There is a prevalent idea that fat hens do not lay. Professor Rice, in charge of poultry at Cornell University has examined the carcasses of a great many hens—both fat and lean—and he reports the fattest hens in full laying condition with hard shelled eggs ready to be deposited while the lean hens showed no sign of egg production and could not possibly have laid for several weeks. It seems that popular opinion needs revision on the proposition that fat hens are not laying hens.

## ARTIFICIAL INCUBATION

WRITTEN FOR THE INDUSTRIOUS HEN BY MICHAEL K. EOYER, HAMMONTON, N. J.

For successful work it is necessary to have good incubators, good eggs, and good, common-sense management. The same directions that apply to one make will not necessarily do for another. Neither can the same directions successfully fit all conditions.

But there are some matters that will generally apply to all incubators.

In the first place the machine should be strongly built of well-seasoned lumber. Next, it should be located in either a well-ventilated, dry cellar, or in a double-walled room above the ground.

The first proper step to be taken is to carefully follow the directions as given by the manufacturers. One or more hatches may be necessary to note whether the directions fit your conditions. If not, then there can be gradual changes made, as might be suggested.

Important rules to remember are:

Fill the lamps each evening, and never use oil of less than 150 degrees test.

Always begin a hatch with a new wick.

Keep the temperature of the egg chamber as near 103 degrees as possible, and keep the incubator away from the sunlight.

Test on the seventh and fourteenth days. Study the air cells of the eggs to determine if moisture or ventilation is needed.

After the fourth day turn the eggs night and morning, up to the eighteenth day.

Keep the burner clean from dirt, and scrape the charred part off the wick in preference to trimming it.

Never turn up the flame of the lamp so high that it will smoke.

In placing the eggs in the machine, have the large ends pointing the same way, and never add eggs after the hatch has started.

Cool the eggs after the fourth day, by placing the trays on top the machine, and placing a thermometer on a fertile

egg. As soon as the temperature has fallen to ninety degrees, return the trays to the machine.

If the air cell of the egg is unusually large, add moisture; if small, give ventilation. The air cell on the first test should measure a quarter of an inch from the middle of the large end; five-eighths inch on second test, and three-quarters inch on the nineteenth day.

Incubating white and brown-shelled eggs at the same time in the same machine generally results in unsatisfactory hatches. The shells of the former are thinner than those of the latter, and consequently require different treatment.

After removing the infertile eggs, in order to have an even temperature for the eggs in the machine, spread out the fertile ones in the trays so that they will occupy about the same relative position to one another.

In selecting eggs for hatching have them of a uniform size, neither too large nor too small. Also reject thin-shelled eggs, and those having a ridge around them and poorly shaped ones.

Before starting the incubator clean out the heat or flue pipe into which the lamp chimney extends, and clean all parts of the lamp thoroughly, having the burners as near as possible as bright as when they were new. Use good machine oil on all the bearing parts of the machine, after first removing all dust and dirt.

Do not blame too much of your incubator failures on your machine. Fertile eggs depend on a healthy, well-kept and properly-fed flock. Hens that have had roup and been apparently cured will be a very poor dependence for fertile eggs. It is as C. O. Brown once said: "Incubation will often commence with eggs laid by such hens, continue for a period satisfactorily, and then suddenly stop." Of course in such cases the incubator is blamed when it really belongs to insufficient vitality in the eggs. We can look for the same trouble with eggs laid by overfat hens. And equally so when the male bird heading the breeding yard is too fat.

### PIN MONEY FOR THE POULTRYMAN'S WIFE

One would readily think that a Kentucky horseman's wife would have no need to look out for pin-money. Nevertheless many of them do. So great is the expense of horse raising and growing Burley tobacco that many wives are limited as to pocket-money. I have chosen some red feathered birds—Rhode Island Red chickens and Bourbon Red Turkeys—from which I have derived a goodly profit. The Bourbon Red Turkeys are a native of Kentucky and thrive well here. They are a stay-at-home bird, can be raised as easily as chickens, and are fine sellers. Within another month we will have none left but a few young toms from our flock of sixty-three. Have sent Rhode Island Red cockerels to almost every state in the Union this fall without a single dissatisfied customer. Many Southern breeders tell me thy cannot have luck in the South with turkeys, but as I see many advertisements every year in Southern papers, and judging from the Southern displays at poultry shows, I believe the South, with a little effort, would excel the North in this line. I enjoy reading the experience of others, and from time to time look forward for something new.—N. R. GULLION, Sparta, Ky.

### A MID-SUMMER NIGHT'S DREAM

An American Boy, weary of *Sporting Life* in this Century and desiring *Recreation*, was on an *Outing in Field and Stream*, enjoying *Country Life in America*, when he met the Modern *Priscilla*, a Popular member of the *Smart Set*. He declared his love at *Sunset* and told her how much he longed for *Suburban Life*, a *Farm Home*, *Good House-Keeping*, a flock of *INDUSTRIOUS HENS* and a helpful *Poultry-Keeper*. She had been previously impressed with a *Scientific American*—a *Craftsman* who was an ardent exponent of *Popular Mechanics*. But now the *Outlook* seemed most favorable for *Poultry Culture*, either *Commercial Poultry* or *Fancy Fowls*, and she decided to leave the *Ladies' World* and become the *Youth's Companion* that she might have her own *House and Garden* with a *Poultry Yard* on the side, where she could produce fresh eggs and tender chicken meat for her table, enjoying *Poultry Life in America* and, perchance, keeping a *Poultry Record* with much System. So

they went to the *Judge* and were married, an occurrence not at all rare in *Human Life*. Then they decided to become *Bohemian* and spend their honeymoon in *Travel*, which is much in *Vogue*, touring the *Western Poultry World* and visiting with the *Pacific Poultryman*. They took with them as a *Guide Book* to the *American Poultry World* a copy of *Poultry Husbandry*, the best *Poultry Monthly* in the *World To-Day*. This is strictly *Reliable*, for they were accompanied by *Everybody's* good wishes for success in *Life and Poultry Success*.—POULTRY HUSBANDRY.

### THINGS TO REMEMBER

Ashes help to keep away lice. Scatter them all over the roosts and inside of the poultry house. Whirl the ashes through the air and let them settle over everything, but be careful that there is no fire in them.

When you buy new chickens keep them confined for two or three weeks in a place remote from your old fowls so disease will have time to show if they are infected with it. This precaution may save your flock and a great deal of trouble besides.

If you value the health of your fowls, don't feed them in filthy vessels nor fail to give them pure, fresh water every day. Scald out all vessels frequently and spread lime on all floors and grounds where the birds use.

Poultry is not fit to eat till about twelve hours after it is killed. At first it is tough, but if left in an icebox or other cool place over night, it will part with its animal heat and become tender.

It is important to study the methods of wild animals that kill poultry so that you may identify and secure them. The mink or weasel cuts the veins of the neck and sucks the blood, killing a dozen or more fowls in one night. The opossum kills only one or two at a time and eats off the head and neck.

Sell at once every hen that does not pay for her keep by laying eggs. It does not pay to keep drones and you should know it. Yet every farmer is guilty of this offense. There are on farms today thousands of hens that "do not earn their salt."

## CHILDRESS' NOTED WHITE LEGHORN EGG FARM

We are certainly glad to see our Southern breeders coming to the front rank as has our friend Jno. F. Childress, of Sweetwater, Tennessee. We well remember when John started in the poultry business. He took his first advertisement in THE INDUSTRIOUS HEN in its first issue and has been a regular advertiser ever since. He, like most beginners, started in the poultry business with several breeds, but soon decided on the White Leghorn as his favorite. He took careful pains to see which of his different breeds paid him the most for the time and feed given them. After keeping several breeds a year to make sure he was right before deciding this matter he ordered a setting or two of the very finest eggs that could be purchased. He did well with these birds, mated them and has kept right in line, with this strain ever since. His show record is really remarkable, having never picked the smaller shows to exhibit in, but always hunted out the place he thought would have the strongest competition. Consequently he has won prizes over our very oldest breeders, and in such shows as Hagerstown, Md., Cincinnati, Birmingham, Augusta, Atlanta, Chattanooga, Knoxville, Bristol, Asheville, and Charleston. John has studied the White Leghorn until he knows every detail. There is possibly no one in the country today who is better authority on White Leghorns than Childress. He started in a small way and has gradually built for himself a reputation almost any one would like to have. The poultry business of course didn't make him much, if any, money for the first few years; but he has gradually drifted to the front and now has a fine income each year from his White Leghorns. He recently bought 18 acres of ground just north of Sweetwater, which is the best location for a home and poultry plant the writer has ever seen—situated upon a high hill, well drained and has plenty of woodland for shade; still has enough of cleared land to raise green stuff for chickens.

The new home of Mr. Childress is modern in every way. It is located one mile from Sweetwater, and has all modern conveniences that the city affords. The house is lighted by electricity, has a fine system of water works throughout his residence, and all poultry houses and yards are watered with this same water system. Four acres of this land is being planted in fruit trees and grape vines. This orchard will be used for colony houses. The soil on this place is white gravel, which is quite an item in the poultry business as it furnishes grit and keeps the plumage in fine condition. Mr. Childress expects to keep from 500 to 1000 laying hens all the time. His poultry houses are not all complete yet; but what he has built are modern and well constructed.

His matings for this season are the finest he has ever had. They compose the very cream of his flock for several years. Many birds in these breeding pens are valued at \$100.00 each, and almost every hen on his place is a prize winner. The male birds of the breeding pens this year are almost perfect in every section, especially in color and shape. When Mr. Childress gets his new plant fully equipped it would pay any beginner in the White Leghorn business to visit this ideal plant. Mr. Childress doesn't claim to raise more White Leghorns than any other breeder, but he tries each year to produce birds as near perfection as possible. If you want to buy cheap, half-bred White Leghorns, don't write Childress. His intentions are to mate and breed the very highest type; and of course he expects a fair price for them. This year's demand has been so great that he didn't have enough stock to fill his orders; but hopes to be able to supply any order he may have for eggs during the season.

We wish Mr. Childress all the success that is due a hustling young man, and we feel sure he will not only be one of the leaders in the White Leghorn business in the South, but one among the noted breeders of America.

## BOYER'S POULTRY TALKS

WRITTEN FOR THE INDUSTRIOUS HEN BY MICHAEL K. BOYER, HAMMONTON, N. J.

The number of pounds of food elements we buy in a ton of linseed meal is 564.4 muscle makers; 65.2 fat forming; 142.0 pure fat. In a like quantity of bran we have 223.4 muscle makers; 1,085 fat forming; and 70.4 pure fat.

When a hen is discovered with closed eyes and a very hot head, no more effective treatment could be given than taking a cupful of hot water, in which is dissolved a tablespoonful of salt, and applying it to the head as hot as it can be borne. This will reduce the swelling and allay the fever. This treatment should be followed by giving a one grain quinine pill each night for three nights, during which time the hen should be kept in a comfortable enclosure alone, and fed on soft nourishing food.

Cold storage men claim that brown-shelled eggs, being heavier and thicker, preserve better than white-shelled ones.

Soft-shelled eggs can be caused by one of four conditions: lack of sufficient lime in the food; indigestion; overfat; fright.

The grade of eggs demanded for the British trade is one that will weight 1½ pounds to the dozen, and for every half pound of eggs that weigh less than fifteen ounces to the dozen, the value is lessened by about one cent per dozen. Those engaged in the import trade believe that in large eggs the albumen is thicker than in small ones, and that about ninety per cent of the stale or bad eggs are small eggs with white shells. Shells of a brown color are preferred, and must be clean without having been cleaned.

The chief peculiarities of the English method of dressing poultry are: killing by wringing the neck, not by chopping or sticking; feathers left on the neck for a few inches from the head, also a few feathers on tail and tips of wings; the breast bone is sometimes broken down by pressing it to one side with the thumb; wings are twisted to the back of the bird.

The French method of preparing poultry for market is acknowledged, in some respects, superior to others. The birds are made very fat and plump, and are manipulated to increase plumpness. A few feathers are left on tail and neck. The skin is white and delicate. Each carcass is tied

with a ribbon, and is shown back uppermost, instead of breast up, according to American and English usage.

It is when the duck is not laying that she readily takes on fat.

Corn, barley and buckwheat are very fattening grains, the latter having a tendency to whiten the flesh. Sweet potatoes are sugary, and as such are fattening, but give a yellow tinge to the flesh.

Scientists tell us that a ton of wheat contains 41 pounds of nitrogen; barley, 32 pounds; oats, 38 pounds; corn, 32 pounds; peas, 70 pounds; beans, 81 pounds; hay, 31 pounds; clover, 39 pounds; milk, 10 pounds; potatoes, 6 pounds.

The French feed considerable buckwheat to their turkeys, believing that this grain imparts to the flesh a delicious, nutty flavor much liked by their epicures.

The late M. Barral, of France, laid down the rule that in every case the food given should be in proportion to the weight of the birds, taking into consideration their active nature and such accessory products as eggs and feathers. Generally speaking, an average hen will consume three ounces of food a day, or over a bushel in the course of a year, but the weight of gallinaceous birds varies considerably, and hence no really definite idea can be formed of what they are capable of consuming to the best advantage.

In cases where cock birds have lost their voice, which can be noticed when they attempt to crow, a teaspoonful of glycerine on which has been sprinkled a little chloride of potash, given daily, will be found effective. For more obstinate cases follow with a half teaspoonful of cod liver oil, once a day.

Some poultrymen in the South use rosin in dressing poultry, claiming that by its use they can do the work quicker and more thoroughly. The fowl is first dipped in cold water, then with a perforated can, powdered rosin is sprinkled all over the feathers. The fowl is then scalded in the usual manner, and the whole coat—pin feathers and all—it is said, comes off very easily in the mass, and the job is complete. It does not in the least affect the appearance of the skin.

**THE  
INDUSTRIOS HEN**

DEVOTED TO EVERY INTEREST OF THE

**Poultryman, Live Stock Breeder and Small Farmer**

Entered at the Knoxville Postoffice as second-class matter

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**Vol. 6****JANUARY, 1910****No. 8**

THE INDUSTRIOS HEN is issued promptly on the first of each month. It furnishes the latest and most authoritative information obtainable on all matters relating to Poultry and kindred Industries. Contributions that are practical and pithy are solicited.

The Editor is not responsible for and does not always endorse the opinions of contributors.

Subscribers desiring a change in address will please give the old as well as the new postoffice.

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Forms close 25th of month preceding date of issue.

**SPECIAL NOTICE TO SUBSCRIBERS**

Your address on the wrapper indicates when your subscription expires. In order not to miss a number it should be renewed one month in advance. If, after your name appears the date "January 11," it means that your subscription is paid to January 1911, and unless renewed will be discontinued after that date.

If a large letter "X" is stamped in the panel at the left of this paragraph, it means that the time for which you paid your subscription has expired, and, unless renewed before the next issue, will be discontinued; therefore, if you do not want to miss THE INDUSTRIOS HEN, YOU SHOULD RENEW AT ONCE. Do not fail to send us either 50 cents to pay for your subscription for another year, or \$1.00 to pay for the paper for the next three years. Better send \$1.00 and have the best and most helpful and practical poultry journal found in the world coming to you regularly every month for the next three years.

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**EDITORIAL PARAGRAPHS**
**ABOUT EGGS**

It is better that eggs for shipment shall not be fertile. They will keep longer than fertile eggs. Of course you want to be careful that all eggs selected for hatching shall be fertile. But don't select ill-shaped eggs for hatching, or those of extra size or with clear spots in the shell. They are not the kind to hatch. If you want cockerels select the largest eggs for hatching, and especially when they are the first laid. Don't moisten setting eggs. The hen does that with her breast. All eggs for sale should be disposed of as soon as possible after being laid.

\* \* \* \*

**HEN VS. RAILROAD**

HIGH finance is beginning to cast longing glances at the lowly, but industrious, American hen. The *Wall Street Journal* has figured out, according to Wall Street methods, the earning power of a hen. It appears that one hen lays on the average, 120 eggs a year, which at current prices bring a revenue of \$2. Deducting 40 cents for maintenance and 10 cents for depreciation, there remains \$1.50 net profit. This profit capitalized conservatively at 5 per cent. places a nominal value of \$30 on Mrs. Hen. Since there are 150,000,000 Mrs. Hens at work, they should together be capitalized at \$4,500,000,000. This is more than one-fourth of the total capitalization, stocks and bonds, of all American railroads. And the equities are all on the side of Mrs. Hen, for she is engaged in a competitive business. The railroad enjoys the benefit of monopoly power in piling up its earnings.

\* \* \* \*

**READY TO LEARN**

Everybody should be open to conviction and ready to learn new facts at all times. The poultryman should not be in exception. It is well, of course, to always have well established methods and a definite policy in your work; but we should never feel that there is nothing more to be learned. There is always something more, and always will be to the wide-awake, progressive man.

Sometimes we may get a good point from an illiterate neighbor. He has had an experience or made an observation that never came in our way. Many ideas among the common people are erroneous; and, again many of them are based on facts. Your grandmother sunned her milk crocks to keep her milk sweet without knowing that sunlight destroys the germs that sour or spoil milk quickly. She knew the fact without the reason and that was a good deal better than not knowing at all.

If any one tells you that feeding your hens with turnip greens in winter will keep them from laying, don't pass it by unless you know the facts in the case. Make a test of the matter and learn the truth. It will not be hard to pen up two flocks of hens and make turnip greens a part of the feed of one flock and give other green food to the other flock. A few days would decide. So, also, in other ways, it always pays to learn all we can.

\* \* \* \*

**GO SLOW**

We have often said that the poultry business should be begun in a small way. Never invest a large sum of money in this or any other business on the start. Never! No matter how well you think you know the business, things will not work out as you imagine. For a big business to start out full-fledged and in a paying condition is contrary to the nature of things and as impossible as for a child to be born a full-grown man.

Apropos to this subject, I have just been reading about a fine young man who lost \$18,000 of his own and other people's money in a poultry plant. He prepared himself most thoroughly by going through the best agricultural college course on poultry in this country. He was not afraid of work and was energetic and hopeful. The trouble was that he was too hopeful and confident. He took theory and imagination too much on trust, and things didn't come out as he expected. They rarely do.

The way to begin any business is to start in a small way and increase your investment as your experience and the demand for your products increase. It isn't possible to dispose of a large lot of products at the start. It takes time to flush the channels of trade and get shipments to moving out. It would be impossible to dispose of all the products of a big poultry plant the first month, or, at a profit, even in the first year. Better go slow at the start.

### DON'T EXPECT TOO MUCH

This may well be said of any business, though we are now speaking more especially of the poultry business. Some people are imaginative and boost a business beyond all reason. This is what some did with the Belgian hare business and it caused many people to lose money in it. In a similar way unprepared people are caused to go into the broiler, duck or in the squab pigeon business only to become disappointed. Any of these are good businesses to the right party in the right way, but not to everybody. Nor is any one business the thing for everybody. Individual adaptation must be considered. Too many people look upon any form of poultry business as so simple that anybody is prepared to pursue it successfully; but in this they are mistaken. No one should enter the poultry business as a pastime or for the fun of it. If he does he is sure to be disappointed. And yet the poultry business is one of the very best.

\* \* \* \*

### DRY FOOD OR WET

The great tendency now is to give poultry dry feed, yet, as we have elsewhere indicated about other matters, it might be well to test the truth of the matter. In one case give wet mash and in another give dry, and watch for results. It might be well also to give both wet and dry to another flock.

People are too much inclined to fall into the idea that there is only one right way to do everything. This is not at all correct. Sometimes there are two ways which are equally good. And again it is hard to find any two sets of conditions that are exactly alike. Hence the methods in the two cases should properly vary.

One thing is certain, and it is that a balanced ration can not be so well administered in dry food as in wet. It is because the birds pick what they want out of a dry ration, and thus may get but one kind of feed. With a wet ration they will take it as it comes, all together.

Of course it is more convenient to feed a dry ration and we suspect that this fact has unconsciously prejudiced opinion in its favor. As we have indicated elsewhere, it always pays to try things from the standpoint of our own experience. However, this does not mean that we are never to accept the experience of others until we have tested it ourselves. That would be carrying the idea too far.

\* \* \* \*

### AN EGG PRESERVATIVE

For those who would avail themselves of an opportunity to put away their eggs, during the time when there isn't much demand and the price low, until a better season for selling, I will offer a formula that will not fail, one that has been tried in our family for many years to our entire satisfaction. The eggs are taken out just as fresh as the day they were put into the liquid, it matters not how long they are allowed to remain there:

To six gallons of fresh water, add one quart of newly slacked lime, one and one half pints of fresh table salt; mix this thoroughly and add about ten ounces of cream of tartar. Mix again, after which, put the preservative into a barrel or large tub. It is now ready for your eggs. Put nothing but fresh ones into the preservative, for one bad egg will spoil the whole lot if allowed to remain too long. To deposit the eggs into the fluid, use a large cook-spoon, plate or the like. Avoid cracking them. An egg that is cracked or soiled shouldn't be used. Should you find the amount of fluid mentioned to be inadequate, you can mix a larger amount by using the above proportions.

As you add fresh eggs, the preservative should be tested. The method used is to take a fresh egg and if it sinks, the brine isn't strong enough; but if it remains near the surface it is about right.

To keep all eggs under the water, put a top—cut the size of whatever is being used—over them and place a large rock on top of this. All eggs must be kept under the preservative, or they will begin to decay. On this board put a handful of salt and lime, which will keep the fluid the same strength from bottom to top. Add salt and lime as the preservative weakens, being sure that the brine will hold up a fresh egg at all times. It is best to put those of different color and size into separate receptacles.

After the tub or barrel is full, cover and let it remain for thirty days, after which examine the preservative. If not strong enough add salt and lime; but if it is, cover and let stand for another thirty days. After the third trial, the eggs should be all right and should keep fresh for years.—J. A. THORNHILL, Hartselle, Ala.

### TIMBER DECAY COSTS MILLIONS

Millions of feet of timber and finished lumber rot every year in railroad ties, bridges, trestles, piles, farm buildings, fences, poles, and mine props. The lumber consuming public of the United States pay perhaps thirty to forty million dollars a year to make good the losses from wood decay.

These great drains are a source of more and more concern each year. Chemists and engineers who have to do with the uses of wood are working unceasingly on the problem. The U. S. Forest Service has men who devote their whole time to it. The importance of the problem can not be overestimated. Millions of dollars are annually saved by preservative treatment of timbers, but much yet remains to be learned.

Wood decay is caused by fungus, a vegetable growth sometimes so small that it can be seen only with the microscope. Its roots or branches, like minute hairs, force their way into the wood tissues and absorb or eat away the solid parts. The collapse which results is called decay. Timber is artificially preserved by forcing into its cells and pores certain substances which prevent the growth of fungi. As long as this substance is present in sufficient quantity, the germ of decay—the threads and spores of fungi—can not enter, and the wood is preserved. This often means doubling and sometimes trebling the life of the timber.

The United States government considers the investigations of the preservative treatment of timber of such importance that the business of one office of the United States Forest Service, that of Wood Preservation, with new headquarters at Madison, Wis., is given over entirely to the work of experiments in co-operation with railroad companies and other corporations and individuals in prolonging the life of railroad ties, mine props, bridge timbers, fence posts and transmission poles.

The lengthening of the life of timber means the saving of thousands of dollars annually through doing away with the heavy expense of labor and cost of material for renewals.

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### PRESERVING THE GOOD WILL OF TRADE

Recent action taken by the American Poultry Association in condemning misrepresentation in the show-room, and the faking of undesirable specimens of birds, is the greatest step that body has taken in promoting the high standard it represents.

Truly we have men heading our Association officers who have fearlessly condemned wrongful practices, and have placed truth and honor above everything. This protection has gone forward like a mighty wave in power throughout the country; and affects every individual interested in the poultry industry.

The effect is far-reaching to all the poultry fraternity, for the time has come when we must preclude all possibility of fraud, even in the little things.

It is a fact of long standing, and generally known to most of us, that the practice of fixing up defects in plumage and other imperfections in show-birds has grown to be a great, thoughtless habit. Just where this should be limited none of us I think is privileged to judge. We could not lay down any rules to govern these conditions without complicating the whole situation. The details are too many, varying from trifling, little, foreign misplacements to openly disqualifying defects. In regard to the latter we should all stand hand-in-hand with our neighbor and friend. Use the hatchet. Don't let the mighty dollar tempt you to dispose of a disqualified bird to your customer, or to exhibit such specimens as sound and perfect. There are moral laws and civil laws and laws of health. Disobedience of any will bring exposure, loss of prestige and suffering. This is the natural order of things, and it is well worth our while to hold up the right, just as far as our judgment and intellect can govern.

The thousands of poultry breeders today conducting business even on a small scale require as much talent and more sound judgment, than a whole lot of other business enterprises. Because we are forming business relations between man and man, without combine in prices or an amalgamation of interest. In other words we are meeting demands and giving full value without restraint to our customer. While the poultry business ranks about sixth place in value of production in the country, it is, with its hundred thousand tradesmen, in the least untarnished condition of all. We have the American Poultry Association to preserve these conditions, and protect with all fairness each individual poultry raiser within its jurisdiction.—C. L. PATTERSON, Akron, O.

## KNOXVILLE'S SUCCESSFUL SHOW

The fifth annual exhibition of the East Tennessee Poultry Association which closed Saturday night, January 8th, was one of the most satisfactory of the many good shows that have been held in Knoxville. Judge Blanks, of Louisiana, who had been engaged to assist Judge D. M. Owen, of Athens, in placing the awards, was unable to attend on account of illness. Judge Owen was, therefore, a very busy man, and it required hard work to place the ribbons on the more than one thousand birds that greeted the visitors at Armory Hall during the four days of the exhibition. Everything was conducted harmoniously, however, and no dissatisfaction was heard with regard to the placing of the awards. Judge Owen is to be congratulated on his good record here.

There were many visitors from a distance and a number of poultrymen from other states had birds on exhibit.

A somewhat unique feature was an exhibit of a fine pen of Sicilian Buttercups by Mrs. J. S. Dumaresq, of Easton, Md. These birds, which are a comparatively new breed in this country, were conspicuous objects of admiration to all who attended the show. The striking appearance of the Buttercups, together with their wonderful egg-record, will, without doubt, cause them to be extensively bred throughout the country at no very distant day.

Among the many hundreds attending the show were the following: Rev. A. C. Snoddy, Newport; J. A. Dinwiddie, New Market; M. Jackson, Johnson City; J. G. Gilmore, Cleveland; Mrs. Beeler, Powder Springs; Fred H. Cook, Beaver, Pa., breeder of Single Comb Brown Leghorns and treasurer of the American Single Comb Brown Leghorn Club; Judge Loring Brown, of Smyrna, Ga.; J. P. Swift and wife, Waynesville, N. C.; Wade Hampton, Rogersville; John C. Crawford, Maryville; C. P. Hale, Sweetwater; Clayton I. Ballard, Morristown, and many others.

Single Comb Rhode Island Reds constituted the largest class of birds in the show; but there were large exhibits in all classes.

J. P. Swift and Son, Waynesville, N. C., Loring Brown, Smyrna, Ga.; T. D. Smith, and Valley View Poultry Farm, Knoxville, were among those having the largest number of birds on exhibit, and each of these exhibitors made heavy winnings.

The premium list this year was especially attractive, and much credit is due the officers of the East Tennessee Poultry Association for the successful and highly satisfactory manner in which the exhibition was conducted. Competition is always strong in the Knoxville shows. A winning here means something, and all those to whom Judge Owen awarded prizes may well feel proud of their success.

There was considerable trading done during the show and something like \$1,000 in stock and eggs changed hands. Several offers ranging from \$25 to \$50 for single birds were refused.

The East Tennessee Poultry Association will have as its officers for the ensuing year: C. W. Henderson, Knoxville, president; Geo. W. Callahan, Knoxville, vice-president; J. C. Vaughn, Lebanon, vice-president-at-large; John E. Jennings, Knoxville, secretary-treasurer. The same executive committee that have served during the past year were re-elected, as follows: E. E. Carter, J. H. Henderson, J. C. White, T. E. McLean, Knoxville; Sam M. Cooper, Fountain City; T. L. Bayne, Russellville; J. A. Dinwiddie, New Market; A. J. Lawson, Cleveland.

The Association decided to hold its next show in connection with the Great Appalachian Exposition, which will open what it is confidently believed will be the greatest exposition ever held in the South, next September or October. Complete, definite arrangements as to details will be perfected a little later. THE HEN will keep its readers fully advised as to developments; but one thing is already assured, and that is that those who attend the exposition here next fall will see the biggest, brightest and best poultry show ever held south of the Mason and Dixon line.

The awards at the fifth annual show were as follows:

### AWARDS.

*B. P. Rocks*—Mrs. W. R. Madden, Knoxville, 4ck, 89; 2ck, 90; 1ckl, 93½; 1hen, 93½; 2hen, 93; 4hen, 92; 4pul, 92½; 1pul, 94; 2pul, 93; 1pen, 187½; 3pen, 182½. Stuart & Luttrell, Inskip, 3ckl, 90½. A. J. Lawson, Cleveland, 1ck, 90. T. D. Smith, Knoxville, 3ck, 89½; 2ckl, 91; 4ckl, 90; 3hen, 93; 3pul, 93; 2pen, 183½; 4pen, 180½. *White Rocks*—A. W. Gilmer, John-

son City, 4ck, 91. Joseph Knott, Knoxville, 2ck, 93½; 3ck, 92½; 1ckl, 92; 3ckl, 91; 1pul, 96; 2pul, 95½; 1hen, 94½; 4hen, 91; 2pen, 188; 3pen, 183½. *White Rocks*—Flem Hazen, Jr., Knoxville, 1ck, 94; 2hen, 93; 3hen, 92; 4ckl, 88; 2ckl, 91½; 3pul, 95; 4pul, 94½; 1pen, 188½; 4pen, 183½. *Buff Rocks*—J. P. Swift & Son, Waynesville, N. C., 1ckl, 93; 2pul, 93½; 3pul, 91½. J. R. McKinney, Knoxville, 3ckl, 90; 4ckl, 86; 2ckl, 91; 1pul, 93½; 4pul, 91. *White Wyandottes*—Valley View P. Yards, Knoxville, 2ck, 89½; 4hen, 94; 2ckl, 92½; 3pul, 94; 4pul, 93½; 2pen, 185½. J. P. Swift & Son, Waynesville, N.C., 3ckl, 91; 2hen, 94½; 3hen, 94½; 3pen, 184½. J. S. Seagraves, Lebanon, 1ckl, 93½; 1hen, 95½; 1pul, 96; 2pul, 95; 1pen, 187½. *Columbian Wyandottes*—A. C. Snoddy, Newport, 3ckl, 86½; 4ckl, 86; 1hen, 93; 2hen, 92½; 3hen, 91; 4hen, 87½; 2pen, 177½. *Silver Laced Wyandottes*—Valley View P. Yards, Knoxville, 3ck, 86; 2hen, 89; 3hen, 88; 1pul, 90½; 3pul, 86½; 4pen, 174½. *Partridge Wyandottes*—S. E. Truan, Fountain City, 2ck, 91½; 1pul, 92; 4pen, 180½. Sandy Run P. Yards, Ellenboro, N. C., 1ckl, 93½; 4ckl, 89½; 3pul, 91½; 2pen, 183½. Rex W. Sharp, Inskip, 1ck, 93½; 4ck, 91; 1hen, 92½; 4hen, 91½; 1pen, 184½. R. A. Swadley, Johnson City, 3ckl, 90½; 2pul, 92; 4pul, 90½; 3hen,



"Beauty Bright" (A. K. C. S. B. 109, 257) and three of her pups.

The following letter is in reference to one of the above pups. We have others just as smart and will please you equally well. Our puppies are of the best breeding, farm raised, and all subject to registration:

KNOX COLLIE KENNELS, Knoxville, Tenn.

"The pup I bought from you is the smartest dog I ever saw. When he was five months old, he could understand anything you would say. There wasn't a neighbor's chicken that could come into our yard, and if one did, he would soon get it out, and without anyone telling him to. I think when he is a year old that he can pick out the milk cows or calves and bring up any of these at our command."—LEO B. SMITH, Williamsburg, Iowa.

If you want a thoroughbred Scotch Collie pup as a pet, or to guard or drive cattle, sheep, or chickens, write us. We have none but the best. Knox Collie Kennels, Knoxville, Tenn.

91½; 3pen, 181½. H A Reep, Knoxville, 3ckl, 91½; 2hen, 92½. *Buff Wyandottes*—Blue Grass Pty. Yards, Dry Ridge, Ky., 1ck, 90; 1pul, 93½; 2pul, 93; 3pul, 92; 4pul, 91; 1pen, 182½. *Golden Laced Wyandottes*—Valley View P. Yards, Knoxville, 1ck, 90½; 1hen, 90½; 2hen, 89½; 3hen, 88½; 4hen, 87½; 2pen, 179½. *S. C. R. I. Reds*—Wm Monday, Knoxville, 1ck, 92; 3pen, 183½. A J Stanberry, Newport, 1ckl, 93½; 1pul, 94; Jno W Brown, Thorngrove, 4ckl, 91½; 4pen, 183½. S M Cooper, Fountain City, 1hen, 92½; 3hen, 92½; pen, 182½. Thomas E McLean, Knoxville, 3ckl, 92½; 2hen, 92½; 2pul, 94; 1pen, 185½. Belmont Farm, Smyrna, Ga., 4ck, 90; 4hen, 92; 3pul, 93½; 4pul, 93½; pen, 183½. C A Dobbs, Gainesville, Ga., 2ck, 92½; 2ckl, 93½; 2pen, 185½. M Jackson, Johnson City, 3ck, 90½; pen, 182½. *R. C. R. I. Reds*—J P Swift & Son, Waynesville, N. C., 1ckl, 90; 3ckl, 87½; 1pul, 93½; 2pul, 92½; 2pen, 179½. Valley View P. Yards, Knoxville, 4pen, 173½; O H C Rogers, Knoxville, 1ck, 93; 3ckl, 87½; 4ckl, 86½; 3pul, 90; 1hen, 93; 3hen, 92; 4hen, 90; 1pen, 184½. Rose Hill P. Yards, Cleveland, 4ckl, 87½; 3pen, 174. Hale & McCartney, Lebanon, 2hen, 92; 4pul, 90. *Light Brahmas*—Valley View P. Yards, Knoxville, 2ck, 88; 3hen, 89; 2hen, 89; 4hen, 87½. Arthur Iron, Knoxville, 3ckl, 87½; 1pul, 90. *Black Langshans*—Valley View P. Yards, Knoxville, 1hen, 92½; 2hen, 92; 1ck, 92½. Rev J R Brown, Sweetwater, 1pul, 93; 3hen, 91½; 1pen, 180½.

pul, 92; 2pen, 186. *R. C. B. Minorcas*—H N Camp, Knoxville, 1ckl, 93½; 2ckl, 92½; 1pul, 91½; 2pul, 90½; 3pul, 89½; 4pul, 89½; 1hen, 93½; 1pen, 184½. *S. C. W. Minorcas*—W B Irwin, Maryville, 2ckl, 89½; 1hen, 92½; 2hen, 91; 3hen, 90; 4hen, 89½; 1pen, 180½. *S. C. W. Orpingtons*—Albert Aurin, Knoxville, 4pul, 89½. C A Dobbs, Gainesville, Ga., 1ckl, 92; 3ckl, 86; 1hen, 93½; 2hen, 92; 3hen, 88½; 1pul, 95½; 2pul, 93½; 3pul, 91½; 1pen, 186½. *S. C. Black Orpingtons*—W C Evans, Johnson City, 1ckl, 94; 2ckl, 94; 3ckl, 92; 1hen, 94½; 1pul, 95; 2pul, 93; 3pul, 91½; 1pen, 187½. *S. C. Buff Orpingtons*—Dr E C Hamilton, Arbingdon, Va., 2ck, 92; 2hen, 92½; 4hen, 90; 4Pen, 183½. *S. C. Buff Orpingtons*—J W Irwin, Knoxville, 3ckl, 91. R H Rule, Rockford, 2ckl, 92½; 1pul, 95½; 2pen, 184½. Mack Haynes, Shooks, 3ck, 90½; 3hen, 90½; 4ckl, 90½; pen, 181. G B Moorhead, Lynchburg, 1ckl, 94½; 2pul, 94½; 3pul, 94½; 4pul, 93; 1pen, 188½. J S Seagraves, Lebanon, 1ck, 92; 1hen, 93½. *S. S. Hamburgs*—Valley View P. Yards, Knoxville, 2ckl, 89; 1hen, 92½; 2hen, 92½; 3hen, 91½; 1pul, 93½; 1pen, 181½. *Houdans*—Dr J T Leeper, Lenoir City, 1ck, 91½; 2ck, 88; 1ckl, 91½; 2ckl, 89½; 3ckl, 87½; 1hen, 92½; 1pul, 95; 2pul, 94½; 3pul, 93; 4pul, 92½; 1pen, 184½. *Cornish I. Games*—Valley View P. Yards, Knoxville, 1ck, 93; 1hen, 90; 2hen, 88½; 3hen, 87; 4hen, 86; 1pen, 180½. *Pit Games*—Geo P Heath, Byington, 1hen; 3ckl, Wm Dunn, Knoxville, 3ck; 3pul. Hauston Hurt, Knoxville, 1ck; 2ckl; 2hen. Robt Tobine, Knoxville, 2ck. Tom W Cary, Knoxville, 1ckl; 2pul. Luther Wright, Knoxville 4ck; 3, 4 hen; 4ckl; 1pul; 1pen. *Buff Cochin Bantams*—Louis & Fred Brown, Smyrna, Ga., 1ckl, 95; 2ckl, 91; 1hen, 93½; 2hen, 93½; 3hen, 93½; 4pul, 92½; 1pul, 94½; 1pen, 188½. W J Frasier, Knoxville, 1ck, 91½; 4ckl, 90½; 3ckl, 91; 3pul, 93; 2pul, 94; 4hen, 93. *B.B.R. Game Bantams*—Louis & Fred Brown, Smyrna, Ga., 1ck, 94½; 1ckl, 95; 1hen, 94½; 3hen, 94; 2hen, 94; 2pul, 94; 1pul, 94½; 1pen, 189½. Valley View P. Yds., Knoxville, 2ck, 94; 2ckl, 94; 4hen, 93½. *Pile Game Bantams*—Louis & Fred Brown, Smyrna, Ga., 1ck; 1.2hen; 1.2pul; 1pen. *Birchen Game Bantams*—Louis & Fred Brown, Smyrna, Ga., 1ckl, 1.2pul; 1hen. *White Cochin Bantams*—Earl M Biddle, Knoxville, 1ck; 1hen; 1pul; 1ckl. *M. B. Turkeys*—Mrs R B Beller, Powder Springs, 1gobbler; 1hen. *Pekin Ducks*—Valley View P. Yards—Knoxville, 1pr. Hugh Bell, Knoxville, 2pr. *Indian Runner Ducks*—Rogers Sisters, Knoxville, 1pr. Clayton I Ballard, Morristown, 2pr. *Brown China Geese*—Mrs H C Bondurant, Knoxville, 1pr. *Emden Geese*—Valley View Farm, 1pr. *Buttercups*—Mrs J S Dumaresq, Easton, Md., 1ck; 1.2, 3, 4pul; 1pen.

(Where no State is shown in above addresses it is understood to be Tennessee.)

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**WINNERS WHEREVER SHOWN**

1ST PULLET TENNESSEE STATE FAIR .09  
1ST PULLET MEMPHIS, TENN. FAIR .09

2ck, 92. *S. C. Brown Leghorns*—S P Mears, Asheville, N. C. 4hen, 91½. E E Carter, Knoxville, 1ck, 93; 3ck, 92; 1ckl, 94; 2ckl, 93½; 1hen, 93½; 2pen, 186. Stuart & Luttrell, Inskip, 4hen, 91½. Jno E Jennings, Knoxville, 1ck, 93; 2ck, 92½; 2ckl, 93½; 4hen, 91½; 2hen, 92; 3pul, 93; 1pul, 94½; 1pen, 186½. J H Henderson, Knoxville, 4ck, 91; 2pul, 94; 4pul, 92½; 3pen, 184½. M V Felmet, Asheville, N. C., 2hen, 92; 3hen, 92; 1pul, 94½; 2pul, 94; 3pul, 93; 4pen, 182½. M S Copeland, Powells Station, 3ckl, 92½; 4ckl, 92½. *S. C. W. Leghorns*—J A Dinwiddie, New Market, 4ckl, 94; 2hen, 93½; 3hen, 95; 4hen, 94½; 2pul, 96; 3pul, 95½; 4pen, 189½. Dr S C Tatum, Center, Ala., 4hen, 94½; 3pul, 95½; 2hen, 95½. J P Swift & Son, Waynesville, N. C., 2ck, 95; 1ckl, 96; 4pul, 95; 2pul, 96; 3pul, 96; 1pen, 191½. Valley View P. Yards, Knoxville, 3hen, 95; pen, 186½. A J Lawson, Cleveland, 1ck, 95; 4ck, 93; 1hen, 96; 3ck, 93½; 4hen, 94½; 3hen, 95½; 2hen, 95½; 1pul, 96½; 2pul, 96; 3pul, 95½; 4pul, 95; 2pen, 190½. O H Tindell, Fountain City, 2ck, 94½; 3hen, 95; pen, 187½. T D Smith, Knoxville, 4ckl, 94½; 3pul, 95½; 4pul, 95; 3ckl, 94½; 3pen, 189½. T F Hazen, Knoxville, 4pul, 95½; 4hen, 95. *S. C. Buff Leghorns*—W D Adcock, Knoxville, 1ck, 91½; 1hen, 92; 2hen, 92. *S. C. B. Minorcas*—J C Vaughn, Lebanon, 1ck, 91½; 1ckl, 94½; 1hen, 94½; 2hen, 94; 3hen, 93; 4hen, 92½; 2pul, 94½; 1pen, 188½. Mrs J M Grissim, Lebanon, 3ckl, 89½; 1pul, 95. C H Ledford, Atlanta, Ga., 2ckl, 93½; 3pul, 94; 4

### PROFITS IN POULTRY

This subject concerns the poultryman and the farmer more than any other. A few years ago it was only the fancier who was willing to pay \$5.00 for a good trio of thorough-bred birds. The fancier demonstrated the advantage of raising pure-bred stock to the poultryman and the farmer. Today all poultrymen and nearly all intelligent farmers have discarded the mongrels to make room for the more profitable pure-bloods, not hesitating to pay \$5.00 to \$25.00 per trio for the better breeds which have increased their profits several times the amount of the price paid for the trio.

After discarding my mongrels the question arises, what breed do I want? Some will tell you to get a heavy fowl, while others will advise you to get one of the Mediterranean class. For illustration we will take two of the older breeders, Rocks and Leghorns. Supposing you raise a flock of 50 to 75 cockerels and 25 pullets. A laying hen should not be kept for laying purposes over 3 years. At the end of 3 years the hens are sold. The Rocks will bring about \$15.00 more than the Leghorns, conceding that they will weigh 100 pounds more and providing you get 15 cents a pound. The Leghorns will lay about 50 eggs more per year than the Rocks. In 3 years the 25 Leghorns will produce 310 dozen more eggs, at 15 cents per dozen. The value of their egg production would be \$55.88 more. The Rocks will consume 60 cents each more feed per year or \$45.00 for 25 hens for 3 years. This would give the Leghorns' earning capacity \$85.88 over the Rocks. Deduct \$15 for what the 25 Rock Cockerels will sell for over their rivals and this will leave \$70.88, or what the Leghorns will earn more than the Rocks. I am quoting these figures to show you that the profit is in the eggs. Where one man makes money by raising stock for the market, there are twenty who make money in eggs. These figures show beyond a doubt which breed to select. No one can deny the

laying ability of the Leghorns—they have always been noted for being great layers.

The world is progressive. This is especially true in the chicken business. While Leghorns were regarded a few years ago as the foremost egg producers, they have met their superiors in Anconas. A few years ago this breed was comparatively unheard of in this country, although they have been bred largely in England for the past sixty years. They were introduced into this country about ten years ago, and have worked their way to the front until their praises are voiced by thousands throughout the land.

No breeder or writer ever denied the remarkable laying ability of this handsome breed. I noticed an article some time ago, which was unfriendly to Anconas, stating they were wonderful layers, but their eggs were not of a good flavor. I couldn't think the gentleman could be guilty of a willful misrepresentation, but concluded he must have gotten hold of a stale egg. I desire to say that Anconas lay a nice, large, white egg, having a delicious flavor.

Many breeders are keeping pace with the times by discarding old varieties for the grandest of breeds—Anconas. The replacing of their stock with Anconas is the handsome tribute paid by many progressive breeders to these most profitable layers. Anconas not only excel in laying the largest number of eggs, but also a very large, white egg. They are noted for their heavy production during the winter months when price of eggs is high. A poultryman separated his Anconas from his other breeds, to compare their laying ability. He told me that his Anconas laid nearly twice as many eggs and consumed less feed. I have received many such flattering reports from other customers.—H. C. SHEPPARD, Berea, Ohio.

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#### EARLY AIREDALE FANCIERS

The history of the Airedale in America for the last ten years is interesting when we consider that in such brief time this useful and handsome Terrier has come to be so popular and so well known and admired over all this country and Canada. Future Airedale enthusiasts must remember that they stand indebted to two gentlemen in particular as the principle founders of the breed in America.

To Mr. Newbold, of Philadelphia, belongs the honor of having imported Ch. Clonmel Monarch, and a brood matron in whelp to Ch. Master Briar. These started the fancy in Philadelphia. The host of conquering Airedales coming since from that city all trace back to sons and daughters of "Monarch." In England, this Terrier sired five champions before he left, and his record as a sire in this country stands unequalled. From Mr. Newbold's kennels came also Ch. Farleigh Mikado, twice winner of the Wissahickon gold medal, defeating the best in the country. Clonmel Monarch (in America) sired Ch. The Gamecock, Ch. Red Raven, Ch. Chorister, Ch. The Marchioness, Wyndhill Vandal, Red Riding Hood, Red Queen, Hot, and in his last litter, Ch. Tanglewold Una, besides many other good ones. He is grandsire of Ch. Farleigh Mikado, Ch. Ingaflora, Ch. Sitting Bull, Ch. Red Sunlight, Ch. Wyndhill Diana, Ch. Norseman, Ch. Hedgeley Flash, Ch. Hedgeley Flicker, The Barrister, Ch. Briar's Masterpiece, Ch. Longhill Peggy, etc. Philadelphia unquestionably holds first place today as the home of good Airedales. Mr. R. H. Johnson, Jr., has a good one in "The Rook," Mr. Biddle, Mr. Barclay, Mr. Milford, Mr. Mitchell, and a few others have dogs in the "first flight."

Mr. Théodore Offerman, of New York, is the other gentleman whose interest and courage in importing the best has advanced the Airedale in this country to a very large extent. Those grand Airedales bred within recent years around New York are all due to the start given the New Yorkers by Mr. Offerman. The cream of his importations were Ch. York Masterpiece, Ch. York the Conqueror, Ch. York Victoria, Ch. York Sceptre, Clonmel Floriform and Ch. Bolton Woods Briar. It is safe to say that Mr. Offerman has spent more money on Airedales than any other fancier. Ch. York the Hayseed, and his son, Ch. York the Haymaker, are the best of Mr. Offerman's own breeding. Bolton Woods Briar for some unexplained cause was absolutely neglected by breeders at large. Three litters are all that this unfortunate dog ever sired. Had he had Clonmel Monarch's chances there would now be many more champions. In those litters were Ch. Briar's Masterpiece, Ch. Longhill Pegey Briar's Teddy, Briar's Boy, Ch. Harry Jones, Ch. Lillian Jones, Walter Woods, Johnny Jones, The Brown Prince, The Black Queen, and several others. Ch. Pilgrim Yellow Jacket was sired by Briar's Masterpiece,

Briar's Teddy has sired several very promising Terriers, and Harry Jones has some good ones to his credit. Within the next few years many good Airedales will trace through these dogs to Bolton Woods Briar. At present the fancy in New York is supported by Mr. Offerman, Mr. Murray, Mr. McGough, Mr. Evans, Mr. Orcutt, and others that keep "right there" with good home-bred.

Boston had Mr. Arthur Merritt, importer of Ch. The New King and breeder of Ch. Prince Hal, to start the breed along. Mr. French, Mr. Ames, Mr. Burgess, and lately, Mr. Jordon, are ardent supporters of the breed.

In Canada Mr. Laurin, of Montreal, is the foremost owner and has made many importations, including Ch. Sumbarton Lass, Ch. Master Royal, Ch. Mistress Royal, Ch. Lucky Baldwin, etc. Ch. Colne Type seems to be the best Mr. Laurin has bred.

The owners of this great breed are spreading rapidly, and with all the new ones we must still remember Clonmel Monarch and Bolton Woods Briar, and not forget the debt to Mr. Newbold and Mr. Offerman.—W. E. BAKER, JR., Princeton, N. J.

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#### THE COUNTRY-FARM POULTRYMAN

There is as much difference in the work and management given to poultry raising on the farms of East Tennessee and in the same industry conducted in cities or towns as in the political methods of city and country. In cities and towns the poultryman must have a secure enclosure and feed his stock every day. In the country a separate enclosure is generally considered of small importance, and if the garden and patch for sweet corn is properly enclosed, the chicken yard is unnecessary. The hens can mother the chicks, scratch for them and keep off the hawks and all the birds can range as far as they like.

One or two feeds during the day in bad weather is supposed to keep them in fair order for producing eggs and for table use. In some cases this custom is the cause of loss to the farmer in the destruction of crops before time for gathering and in poor condition of the poultry when suitable forage is scarce. Lack of attention in feeding begets neglect in other respects. This neglect of a yard for feeding, of a lot or field for runs and pasture is occasion for lack of attention in collecting the eggs in spring and summer; also in providing ample brooding pens for bringing up the young chicks. The loss of young chicks on the farms each year is fully equal to the cost of housing and fencing, by which many farmers' families could easily double the amount of poultry raised and the income for that branch of industry.

In the matter of varieties there may be one farmer in ten who takes up one variety and sticks to it for successive years, to the exclusion of all others. It is common to see three or four varieties at most of the country homes. Some, more enterprising than others, get full-blood Plymouth Rocks, Leghorns, Cochins or other sorts, but still keep some mixed blood. In this way the supply of full-blood varieties is given over to those in or near to the cities. Would it not be well for country people to fix for and raise one kind at a time, and change to another kind after some years of careful production of choice fowls for trade and market? In the country flocks, many times the birds of mixed blood will be equal to the full bloods, both as to weight and egg production. A cross of Leghorns and Buff Cochins or Plymouth Rocks makes good birds and very desirable for farm conditions. Same as to Plymouth Rocks and Cochins or Langshans. Almost any well-doing farmer can provide separate quarters for these varieties and can make the experiments by which the industry may be made profitable on farms, as in the cities and towns.

There are large areas of worn-out lands in East Tennessee, that could be used for poultry farms if the people knew how to conduct them so as to be profitable. Grain for poultry feed can easily be raised and only a small and very poor piece of land is required for pens and houses.—J. R. PAYNE, Washington College, Tenn.

—o—  
The effect of age of fowls upon egg production was tested for seven periods of thirty days each at the West Virginia Station. The three pens of pullets, 100 in each pen, laid during the experiment, 6,209 eggs. The old hens were three and four years old, and laid 6,349 eggs. The pullets gained 143 pounds in weight, and the old fowls 84. The results, however, do not agree with experiments at other stations, and probably the apparent advantage of old fowls was due to unusual conditions.

# POULTRY ON THE FARM

WRITTEN FOR THE INDUSTRIOUS HEN  
BY AN OLD FARMER

## THE WONDERFUL HEN

Did you ever study a hen closely? I can't say that I did; but others have, and they tell us wonderful things about the hen, as common a creature as you might ordinarily take her to be.

The hen knows things that a man never dreamed of before she let him into the secret. It puzzles us to imagine how the little hen found out some things that the wisest man would think only God could know. Yet she knows them and she knows them right.

She knows that on the eighteenth day after she begins to sit on eggs every little chick turns over in its shell, if it is not already on its back, ready to peck its way out through the top. On getting on the nest that day if the mother accidentally tips an egg over she at once sets it right again.

Why does a hen do this? Because some chicks might not be able to get themselves back into the proper position again, and if they pecked out through the bottom the fluids of the egg would stop the hole and the little chick, just beginning to breathe would be drowned in its own egg fluids from want of air. But how did the hen know?

This is only one of the many wonderful things that the hen knows and does. And yet she never belonged to a mothers' club and read essays on the science of maternity or lectured on race suicide. Such things make us wonder how little we know about this world after all!

## WHAT GRANDMA SAYS

We see that one editor calls them "200-egg liars." That is a little plain spoken but we are inclined to say amen. Some hen may lay 200 eggs in a year, but we never had one to do it and we don't believe there's any breed of that kind.

You can generally tell what a chicken is by the bat of its eye. If it has a clear, sparkling eye that chicken has life and vigor in it. It is not going to keel over and give up the ghost for a trifle. For a healthy chicken always pick a bright eye.

Does your state agricultural college run a short course of study in poultry this winter? If so that is the place for the farmers boy or girl, and may be for some of the old folks, too. Don't fail to take it in if they give you a chance.

Don't have anything to do with a man or woman who is not honest. If they tell you how they have tricked somebody else, beware of them. They will trick you the same way when they have a chance.

If possible you ought to sell your eggs put up in specially prepared paper boxes or cartons of one dozen each, and all the eggs in each dozen alike. Put big eggs in one box and little ones in another—white eggs in one and yellow eggs in another. Then ask highest prices for boxes that are most in demand. If properly managed that gets more money than mixing up your eggs.

## FARM NOTES ON POULTRY

It is well for the farmer to gather up all the poultry science he can but he should mix with it a great deal of personal experience and observation. Science alone won't make anybody rich in the poultry business.

To fatten fowls on the farm put them up in coops containing about four birds each. Feed three times a day with a soft batter made two parts of oats chopped fine and one part of ground buckwheat mixed with skim-milk. Sift out the coarse hulls from the oats.

Why do farmers neglect their poultry when they have nothing else on the farm that would pay better? That is a hard question to answer. It must be because they do not think and are careless and negligent.

Some farmers think it takes too much time to care for farm poultry. This is a mistake, for if proper facilities are provided and the work systematized, any intelligent boy or girl can do all the work needed by an ordinary farm flock by working only a short time each day.

If every farmer would provide good houses and proper supply of feed, his wife could take the poultry of the farm and make more money out of it than her husband does from his hogs.



WRITTEN FOR THE INDUSTRIOUS HEN

BY AN OLD FARMER

## UNCLE HENRY ADVISES BEGINNERS

Every farmer of course knows something about managing poultry, but many know very little, because they have given the subject no study. Hence they should commence at the beginning like other folks. Any one who proposes to go into this business should give to it some preliminary study.

The quickest way to get information is to buy a poultry manual and subscribe for good poultry journal. After studying up your manual well you will be prepared to visit a well-kept chicken ranch and ask questions for information.

In buying stock you should get pullets or one year old hens. If you want to set hens early it is better to get year-old hens than pullets. Older hens can not be so well relied on as layers. At least they should not be over eighteen months old.

Have a regular time to feed and a regular bill of fare in which, however, there should be variety. Meet the appetites of the hens individually so far as you can and don't feed too much or too little in any case.

Keep your houses, feeding vessels, and premises perfectly clean and be careful not to introduce disease with new purchases. Study the demands of your market and learn to meet them satisfactorily.

## CARE IN WINTER

Don't forget the care of your flock in the cold, wintry weather. It is more needed than ever. Your poultry must have comfortable housing, nourishing food, and plenty of exercise even in the coldest weather.

Always have your houses face the south so the warm sunshine may have its best effect. If you get eggs in winter you must make your hens feel something like the warm glow of early springtime. This is the natural way to arouse the dormant impulse for procreation.

In a state of nature all fowls lay eggs only in the spring and early summer. To get eggs at any other time you must work for them. You must feed fresh meat scraps and ground green bone to take the place of bugs and worms of the worm season. The hens must also have green food in winter. In the upper South it is easy to have bluegrass range most of the time.

The fowls must have fresh air at all times even in their roosting places, but the back and ends of the house must be secured against drafts by a coating of tar paper. The roosts are of course to be near the back wall. In the coldest weather a cloth screen should be placed in the windows and in the front opening.

## IF FARMERS REALIZED

If farmers realized fully the possibilities opened to them in poultry, the business this year would be more than doubled. It is already the fifth in rank of farm products in this country where poultry now aggregates 600,000,000 dollars. When we consider how little attention farmers give to poultry generally, the aggregate of business done seems truly remarkable. Another strange thing is that the demand constantly increases every year. It has done so for many years of the past and is likely to do so for many years yet in the future. Under such circumstances it seems that farmers would put poultry among their leading industries instead of rocking along with it only as a by-product. They certainly would find it very profitable to do so for prices are rising constantly.

Do you know a farm without poultry? It forms about one-sixth of the animal products of this country.

No form of animal food is more wholesome than eggs and they are rapidly taking the place of highly-preserved meats.

Our poultry crop is about equal in value to our wheat crop and next to that of the dairy and slaughtered animals.

The last census showed our wool products to be less than one-third the value of our poultry and eggs.

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T. C. KARNS

#### Bee Notes

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Mrs. Lewis Cowing, of Delaware county, Indiana, this year secured one ton of fancy honey from twenty colonies of bees. She began six years ago with three colonies.

Sow white clover seed for bee pasture in all waste places. In these days of clean farming, little is left of goldenrods, stickweeds and other old-field crops for the honey-bee.

The past season was a good one for beekeepers. Many thousand tons of good honey were gathered in and other thousands went to waste from lack of harvesters.

To keep rid of moths keep only Italian bees and have your colonies strong. Italians and strong colonies dispose of the pests at once.

Never sell poor honey if you want to stay in the business. Nothing else will stop sales so quickly and destroy all prospect for a profitable business in the future.

One good way to sell your honey is to place it in commission, at a fixed price, with some popular groceryman. He should be able to take all you produce, for it would not be right for you to compete by private sales in his territory.

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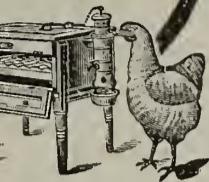
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Won at Gastonia, N. C., Dec. 1-3, 1st ckl., hen, pul., pen. Won, Asheville, N. C., Dec. 8-10, 1st ckl., hen, pul., cock. I have not been defeated this season.

H. E. CAIN, R. 3, Asheville, N. C.

**Farmers Sons Wanted** with knowledge of farm stock and fair education to work in an office; \$60 a month with advancement, steady employment, must be honest and reliable. Branch offices of the association are being established in each state. Apply at once, giving full particulars. The Veterinary Science Association, Dept. 12, London, Canada.

**New Discovery in Disease**

Dr. Zander, of Germany, has discovered an animal parasite which produces dysentery in bees. The disease it produces is akin to that of our spring-dwindling. The disease is highly infectious and considered incurable. The spores by which it is communicated lodge in the middle intestine where they multiply rapidly and destroy the intestinal wall. The excreta passed by the bees get onto their food and scatter the disease. It is also spread by robbers and by means of old combs. Great care should be taken to prevent the spread of this disease, as its result are very destructive. In the early summer large quantities of bees die of it.

**Be Neat**

It pays to be neat in all our work and keep the beeyard clean and well cared for. Allow no trash and litter or piles of boards to accumulate and harbor mice and insects. These living creatures often take up their abode in the outer covers placed over your hives in winter. Roaches also insinuate themselves between the hive cover and the honey-board. While they may not always do positive injury, they should be

**125 Egg Incubator and Brooder Both For \$10**

If ordered together we send both for \$10 Freight paid east of Rockies. Hot water, copper tanks, double walls, double glass doors. Free catalog describes them. Wisconsin Incubator Co., Box 57, Racine, Wis.

**S. C. BUFF ORPINGTONS**

Exhibition quality. Trap-nested. Bred to lay. Not a dissatisfied customer. Eggs specially selected. Pedigreed exhibition stock for sale. Satisfaction guaranteed.

**TWICKENHAM POULTRY YARDS**  
HUNTSVILLE, ALABAMA

**BUFF WYANDOTTES**

A specialty. The "useful as well as ornamental" breed. Eggs, \$1 and \$2 per 15. NEW HOPE POULTRY FARM, T. L. Harden, Prop., Hampton, Tenn.

**Barred P. Rocks**

Winners of the Highest Honors in the Strongest Company. Choice Exhibition Males and Females for Early Shows at Honest Prices.

T. J. GOODLETT, TRAVELERS REST, S. C.

**PARRISH  
BREEDS QUALITY  
Columbian  
Wyandottes**

Parrish breeds and sells more show specimens than any five breeders in the South.

At the great Nashville State Show, September 1909, in the largest class ever shown in the South, I won First, Second and Third Pen; Second and Third Cock; First, Third and Fifth Hen; First and Second Pullet; Second, Third, Fourth and Fifth Cockerel.

Write for Catalogue

**T. REID PARRISH**  
LICENSED JUDGE  
NASHVILLE, TENNESSEE

**DENNIE'S  
Buff Orpingtons**

My birds speak for themselves—as layers and breeders of strong, vigorous chicks.

They win for me and will win for you if you will only give them a chance.

I have about

**25 GOOD BIRDS FOR SALE**

Inquiries a pleasure. Write me your wants.

**West Lawn Poultry Yards**

51 Gilmore Ave., Nashville, Tenn.

**S. C. WHITE LEGHORNS  
AND  
PARTRIDGE WYANDOTTES**

Won Knoxville, Jan. '10, 1st, 4th pullet, 2nd cock in strong competition. Eggs \$1.50 to \$2.00 per setting of 15. Stock for sale.

**S. E. TRUAN, R. I., Fountain City, Tenn.**

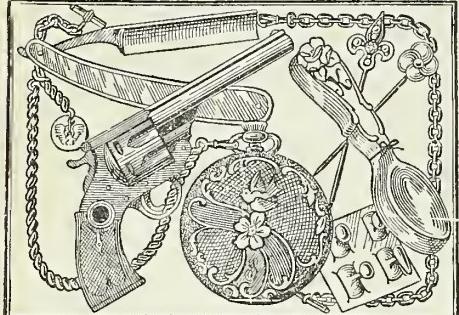
**LEADER ADJUSTABLE**

Get our samples and prices before buying. Largest and best line on earth.

**Smith Sealed.** Used by America's leading Fanciers. Prices postpaid, 12, 15c; 25, 50c, 60, \$1.00, 100, \$1.50; postpaid.

**Leader Adjustable.** Smoothest and most secure fastening ever invented. Prices postpaid, 12, 15c; 25, 50c, 60, \$1.00, 100, \$1.50; 250, \$1.50; 500, \$2.75; 1,000, \$5.25. Send stamp for sample. We make other styles.

**KEYES-DAVIS CO., Ltd., Mrs.**  
Dept. 520 Battle Creek, Mich.

**48 PREMIUMS FREE!**

Return this "Adv." and remit us \$4.95, the Special Price we make you on 2 Boxes of our 5 and 10c Cigars Assorted Brands, which we want to introduce quickly to 50,000 new customers, and we will send you in same package 1 S. & W. Mod. Double Action Nickel Plated Police Revolver, worth \$7.00; 1 Stem Wind and Set Gold Plate Watch, value \$4; 1 Hollow Ground Keen Cutting Ringing Steel Razor, priced \$3; 1 Set (6) Triple Silver-Plated Tea Spoons, worth \$1; also 44 other Biggest Value Premiums which we have not space to mention, worth from 10 cents to \$1 each, provided you remit \$4.95 with order and allow us to REFUND YOUR MONEY if you are not pleased with goods. This "Adv." will not appear after we enroll 50,000 new customers. Give name of your Express Office and Order TODAY. Reference Southern Express Co., Bank of Montgomery.

Address, CANDOR SALES CO., Candor, N. C., U.S.A.

**Columbian Wyandottes****AND****S. C. Brown Leghorns**

That won at St. Louis, Dec., '09, the biggest poultry show ever held. Send for free circular and full list of winnings at Memphis, Augusta and Shreveport. Our stock is mated for results. Choice breeders and eggs at reasonable prices. Satisfaction guaranteed with every order.

**STURTEVANT BROS.**  
Box 12, KUSHLA, ALABAMA

**Your Name Will Get \$2 Eggs  
For 50 Cents Per Sitting**

I will sell 2 sittings of full blood Single Comb Brown or White Leghorn Eggs for \$1 for the 2 sittings. Not less than 2 sittings sold. Eggs by the 100, \$5. Full blood White or Barred Plymouth Rock or Rhode Island Reds or Silver or White Wyandotte or W. Orpington or Rose Comb Brown Leghorn or Single Comb Black Minorca Eggs, \$1 per sitting; by the 100, \$7. Large Bronze or White Holland Turkey Eggs, \$3 for 10 Eggs. Large White Pekin Duck Eggs, \$1 for 10 Eggs. 100 eggs Old Trusty Incubator, and 100 Chick Brooder, delivered at your R. R. station, both for \$14 east of the Rocky Mountains. This is a rare chance to get a start of extra fine stock and a good Incubator. Send Post Office order on St. Louis and have your orders booked early.

**W. F. CHAMBERLAIN, (The Perfect Chick Feed Man)**  
KIRKWOOD, St. Louis County, MO.

swept out now and then or destroyed by insect powder or other antidote that is otherwise harmless. The fence and gate of the bee-yard should also be kept in good repair, not only for the sake of appearances, but to prevent the intrusion of cattle and other live-stock which may not only do damage but themselves suffer decided injury from the bees.

**Red Clover Bees**

As you know, bees extract nectar from flowers with their tongues; but the nectar of red clover is so deep in the corolla of the bloom that the bee's tongue is too short to reach it. Many beekeepers have proposed to overcome the difficulty by breeding long-tongued bees. And sometimes we hear that the feat has been accomplished, but still there is doubt.

In a recent number of *Gleanings in Bee Culture*, Mr. Adrian Getaz, of this city writes very interestingly and instructively on this red clover question. He speaks of several opinions as to how bees get the nectar. One is that dry weather dwarfs the second crop blooms so the bee with ordinary tongue may reach nectar in the shortened corolla. Another is that wet weather

**STRICKLER'S STRAIN**  
S. C. White Leghorns and Barred Rocks cap the climax in quality. They stand the test. They are here to stay. They have the record. Don't experiment with other breeds.

**STRICKLER'S PINEWOODS POULTRY FARM**  
State Vice-President S. C. W. Leghorn Club  
Box 8, Dinsmore, Fla.

**FOR SALE  
S. C. BROWN LEGHORNS**

The 1st prize Cock that was advertised "For Sale" is sold at a good price. If you want a rushing trade, advertise in THE INDUSTRIOUS HEN.

I have a nice lot of young stock that will be ready to ship October 1st, and some yearling stock. Circular free.

**M. S. COPELAND**  
POWELL'S STATION, TENNESSEE

**BROWN  
LEGHORNS**

MY FREE CIRCULAR FOR YOU

**E. E. CARTER**

Knoxville, Tenn.

Dept. I. H. 967 Broadway

**\$7.55 Buys the Best  
140- Egg  
Incubator**

We Ship quick from St. Paul Kansas City Buffalo or Racine

**\$4.50 Buys the Best Brooder**  
Both Incubator and Brooder, ordered together, cost but \$11.50. Freight Prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg tester, safety lamp, nursery, high legs, double door. The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metallamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.

**Satisfaction Guaranteed**  
Belle City Incubator Co., Box 94, Racine, Wis.

**NOW**

If you want some nice cockerels in S. C. Rhode Island Reds and Black Minorcas, send me your order. Two and three dollars each. These are May hatched birds and well worth the price.

Buttercup eggs, ..... \$2.00 for 15.  
Barred Minorcas ..... \$5.00 per 15.

Now is the time to get started with these two new breeds. They are winners.

**C. S. TAIT**

**BRUNSWICK, - - GA.**

**WHITE WYANDOTTE COCKERELS  
FOR SALE**

Including 2nd at Birmingham, 5th at Augusta. A few MAMMOTH PEKIN DUCKS, including 1st Cockerel at Nashville, 1st and 2nd at Birmingham.

**OLIVER RUTHERFORD, Box 77, Eutaw, Ala.**

**HENS THAT LAY ARE HENS THAT PAY  
S. C. WHITE LEGHORNS  
ARE BLUE RIBBON WINNERS**

**EGGS FOR SALE  
PRICES TO MEET ALL COMPETITION  
ROGERS BROS., - Hixson, Tenn.**

**SINGLE COMB R. I. REDS  
AND BROWN LEGHORNS  
FROM PRIZE WINNING STOCK**

Cocks and Cockerels \$2.00 each. If not satisfied will return your money. Just a few left. Eggs in season. Order from this ad.

**J. W. BOWERS, R. I., Englewood, Tenn.**

**VETERINARY COURSE AT HOME**  
\$1200 year and upwards can be made taking our Veterinary Course at home during spare time, taught in simplest English; Diploma granted, positions obtained for successful students; cost within reach of all; satisfaction guaranteed; particulars free. **ONTARIO VETERINARY CORRESPONDENCE SCHOOL**, Dept. 10, London, Canada

# THE ONLY INCUBATOR CONSTRUCTED ON THE RIGHT PRINCIPLE—Let Us Tell You Why

THE lamp is underneath—in the center. Thousands of thermometer tests prove the heat to be uniformly distributed—exactly the same in corners as in center. No other incubator will stand this test. The lamp on side is always a bother on others. The X-Ray tank holds one and one-half gallons—guaranteed to be enough for a complete hatch with the X-Ray Incubator. Fill the tank at the start, and no more filling—no more trouble—no more time or work necessary.

Other incubators waste the heat. That's why they burn 3 to 5 gallons of oil every hatch. The X-Ray controls the heat. That's why one gallon of oil is enough. Other incubators keep the flame at the same height and allow the heat to escape when it gets too hot. The X-Ray automatically cuts the flame down at the burner. That saves your oil. Figure how much the saving is every season—for you.

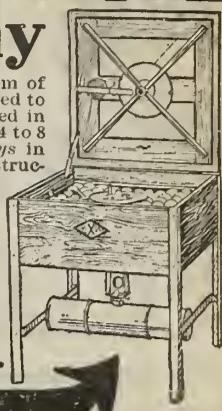
X-RAY INCUBATOR COMPANY,

ONE FILLING FOR A HATCH—LAMP UNDERNEATH

The X-Ray Incubator opens from the top—the only perfect system of ventilation—just like mother hen. Eggs are easiest to turn—no need to remove them. That means less egg-handling. Temperature restored in 15 minutes—while other incubators take 4 to 8 hours to "heat up." Thermometer always in sight. Best in principle and best in construction. Enamelled-steel-covered; beautiful rosewood finish—bottom and all. Steel legs—not wobbly, wooden ones. Double glass door at top.

But get our book—Free Trial, and Freight Prepaid offer—if you are interested in the only perfect incubator. us a postal now, to find out all about both. Thousands in use—we'll show you many letters. But write now.

36th Street, Wayne, Nebraska.



## THE X-RAY INCUBATOR

X-Ray Brooders are constructed on the same principle. Write us a postal now, to find out all about both. Thousands in use—we'll show you many letters. But write now.

**BROWN POULTRY FENCE**

Does Not Cost One-Half as Much as Common Chicken Netting, Yet Will Last Five Times as Long

Size of Wires. The top wires are No. 9½ gauge—same as nearly all stock fences. Intermediate and stay wires in same proportion—all double strength high carbon spring steel wire.

One Inch Spacings. More closely woven by far than other poultry fences, because bottom wires are only one inch apart, balance in same proportion—absolutely chick tight and rabbit proof.

Stock Strong. Built of material heavy and strong enough for hogs, horses and cattle. Wires cannot possibly slip, sag or bag down.

Rust Proof. The double galvanizing of every pound of wire in Brown Poultry Fence insures the fence against rust for many years.

Saving in Cost. With No. 9½ top wires, you can save at least one-half the posts, and besides you require no top railing or bottom boards. These items alone usually cost more than the fence.

Price. Our prices are less than common netting costs. Before buying any poultry fence, get our catalog and prices. We have 130 styles of fences to select from.

For a poultry proof fence woven close enough to confine small chicks yet strong enough for cattle, this fence cannot be equalled anywhere or at any price.

Write Today—We pay the Freight  
The Brown Fence & Wire Co.  
DEPT. 37 CLEVELAND, OHIO

causes the corolla to be filled up with nectar so as to be easily reached by the bee.

On the other hand, Mr. Getaz says a German apiarist recently solved the disputed question by lying in the clover field and detecting the insects in the act. He thus found that a few could reach down to the nectar in the regular way but that others with stronger mandibles and more cunning art cut a hole in the corolla at the nectar point and thus got their fill. After the way was thus opened the honey-bee also stuck in his tongue and got what was left.

Note is also made that The A. I. Root Company of Medina, Ohio, who publish *Gleanings*, have in a short time developed a strain of bees with tongues one-third longer, and Mr. Getaz thinks the work could be facilitated by isolating the apiary where none but long-tongued drones could mate with the breeding queens.

## Sam Thompson Says Try My New Fairfield Incubator 2 Hatches FREE

I'LL SHIP IT for you to try in your own home, two hatches free. I just want to prove to you at my own risk that the Fairfield is the world's best hatcher. That's what I call it. Thousands of my satisfied customers back me up in this strong claim. There is no better machine at any price. It's built right and will give you the biggest hatches and healthiest and strongest chicks.

### Get My New Catalog and My Special Free Trial Offer Now

THE FAIRFIELD is made out of the best California Redwood lumber. It's patented heat system gives an even uniform temperature, which means big hatches. The regulator works perfectly. Big, roomy nursery and egg chamber, double doors. Clear top, fine finish. Write me today without fail for my new catalog and great offer.

**Sam Thompson, Pres.,  
Nebraska Incubator Co.**  
277 Main St., Fairfield, Neb.



## WHITE WYANDOTTES

Fishel strain. Bred for eggs and fancy points. Stock and eggs for sale in limited quantities. Also a few Ancona hens and pullets for sale. Price reasonable.

## DARCAN & COX ANDERSON, S. C.

## SAM M. COOPER BREEDER OF HIGH GRADE S. C. R. I. REDS STOCK FOR SALE FOUNTAIN CITY, TENNESSEE

## LUMLEY'S LANGSHANS

(Black and White), R. I. Reds and Leghorns, (S. C.), Pekin and Indian Runner Ducks. Atlanta and Macon Shows 1908; 13 entries, 8 1st, 4 2nd. Winchester, Tullahoma, Shelbyville and Murfreesboro Fairs, 1909, 22 1st, 1 2nd. Nashville '09, 4 1st, 2 2nd, 1 3rd and 2 4th.

STOCK AND EGGS FOR SALE  
W. E. LUMLEY, Tullahoma, Tenn.

## S. C. BUFF ORPINGTONS

Imported strain, rich golden buff throughout, up to weight. Mine are winter layers, and win the Blue. Eggs \$2.00 per 15. Stock a matter of correspondence.

MRS. LULA LAWSON  
Route 4, Box 2, Cleveland, Tennessee

## S. C. Black Minorcas

Stock for Sale. Circular Free.  
Fred E. Carter, Knoxville, Tenn.

State Vice-Pres. A. B. Minorca Club

## COCKERELS FOR SALE

R. C. and S. C. R. I. Reds

Good Color and Shape

\$2 to \$10

## CRESCENT POULTRY YARDS

CARL H. MESSLER, PROP.  
ASHEVILLE, N. C.

## WHITE ROCKS S. C. WHITE LECHORNS

Some more breeders and cockerels that must go to make room. Eggs, \$1.25 and \$2.50 per setting.

DIAMOND STOCK FARM  
R. 2, Newbern, Tenn.

**FARM FENCE**  
**15<sup>3</sup>/<sub>4</sub> cts. a rod**

For 22-in. Hog Fence; 15 3-4¢ for 26-inch; 18 3-4¢ for 31-inch; 22¢ for 34-inch; 25¢ for a 47-inch Farm Fence. 50-inch Poultry Fence 33¢. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.

KITSELMAN BROS.,  
Box 253 MUNCIE, IND.

**SOMETHING TO CROW ABOUT**

**"HEN-E-TA"**  
ABOUT 30% PURE BONE ASH

NO OTHER BONE NEEDED | NO OTHER GRIT NEEDED

NO MORE BONE CUTTERS NEEDED | NO MORE BEEF-SCRAPS NEEDED | NO MORE CHARCOAL NEEDED | NO MORE OYSTER-SHELLS NEEDED

100 LB BAG \$2.25 | 150 LB. BAG \$1.50

VALUABLE BOOKLET FREE  
ASK YOUR DEALER OR WRITE

**HEN-E-TA BONE CO.**  
NEWARK, N.J. DEPT. 8 | FLEMINGTON, W.V.A.

## Business White Wyandottes

Trap nests used. Every pen headed by a male hatched from an egg laid by a hen that laid not less than 200 eggs that year.

## Business Light Brahmans

Same quality  
Stock for sale. Eggs in season.  
Circulars free.

MICHAEL K. BOYER Hammonton, N.J.

## ROSE C. BLACK MINORCAS, COLUMBIAN WYANDOTTES.

Trap nest pedigree layers and exhibition birds for sale. Superb in quality. Are unequalled as egg producers.

S. T. CAMPBELL, Mansfield, O.

## S. C. Rhode Island Reds

(Red—Not Buff)

My pens are headed by prize winners

### WHITE WYANDOTTES

Two leaders in beauty and utility

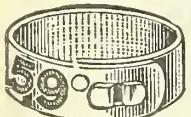
Write for prices on eggs

GERTRUDE PARRISH. Trenton, Tenn.

## PARTIDGE WYANDOTTES

Winnings at Asheville Show, Dec. 8-10, 1909,  
1st, 2nd cockerel; 2nd, 4th pullet; 3rd hen; 2nd  
pen. Stock and Eggs for Sale.

B. R. WARREN, R. 3, Asheville, N.C.



**IDEAL ALUMINUM LEG BAND**  
To Mark Chickens  
**CHEAPEST AND BEST**  
12 for 15c; 25—25c; 50—40c; 100—75c.  
Sample Band Mailed for 2c Stamp.  
Frank Myers, Mfr. Box 50, Freeport, Ill.

**CHASE'S**  
Blood and Nerve Tablets  
Build Up the Weak,  
Emaciated, Convalescent  
and Over-worked  
Price, 50c. Book free. Dr. Chase,  
224 N. 10th St., Philadelphia, Pa.

### Awards at Asheville Show

**Buff Rocks**—Henry J. Hervey, Raleigh, N.C., 1ck; 1hen; 1ckl; 1pul; 1pen; and championship cup for best cock, hen, cockerel, pullet; silver cup for largest display; silver cup for highest scoring hen; silver cup for highest scoring pen in show. C.T. Fallen, Greenville, S.C., 3,4ck; 2pen. G.F. & B.K. McInnes, Charleston, S.C., 4hen; 2,3pul; 3pen. J.P. Swift, Waynesville, N.C., 2ckl; 4 pen. F.E. Sigman, Thomasville, N.C., 4ckl; W.B. Alexander, Charlotte, N.C., 2 ck. **Barred Rocks**—F. Stikeleather, Jr., Asheville, 2ck. T.J. Goodlett, Traveler's Rest, S.C., 3ck. B.S. Davis, Rockingham, N.C., 1ck; 4pen. E.R. Frady, Asheville, 3,4hen; 4ckl; 3pul; 3pen. C.H. Dozier, Marion, Ala., 1,2hen; 2pen. F.E. Sigman, 2ckl; 1,4pul; 1pen. H.B. Neel, Asheville, tied on 2pul. J.E. Hage, Asheville, 1ckl; grand prize silver medal for best cockerel in American class. S.C. R. I. Reds—S.C. Alexander, Asheville, 3,4ck; 3,4 pul; 4pen. A.L. Stockton, Asheville, 2,4pul; 4ckl. Dr. R. E. Ware, Shelby, N.C., 3ckl; 1pul; 3pen. M.N. Hamrick, Shelby, N.C., 1ck; 1ckl; 1 pen; cup for highest scoring cock in show. W.A. Hilderbrand, Asheville, 2 pen. Mrs. C.A. Dobbs, Gainesville, Ga., 2ck. R.C. R. I. Reds—J.P. Swift, 3ckl; 2,3pul; 2pen. Carl H. Messler, Asheville, 2ck; 1pul; 1,2,3hen; 1pen. Ralph Carson, Jr., Spartanburg, S.C., 1ckl; 4 pul; silver cup for highest scoring cockerel in show. **Partridge Wyandottes**—R.A. Swadley, Johnson City, Tenn., 3 hen; 4pul; 3pen. H.E. Heinrich, Spartanburg, S.C., 2ck; 2hen; 3ckl; 1,3pul; 1pen. B.R. Warren, Asheville, 1,2,4ckl; 3hen; 2,4pul; 2pen. **Columbian Wyandottes**—H.E. Cain, Asheville, 1ck; 1,2 ckl; 1,2hen; 1,2pul. Leroy Case, Asheville, 2ck. **White Wyandottes**—Jno. L. Beal, Gastonia, N.C., 3ck; 1hen; 2pen. R.S. Bollinger, Columbia, S.C., 1ck; 2 hen. Dr. J.E. Edwards, Spartanburg, S.C., 3 hen; 2 ckl; 1 pul; silver cup for highest scoring pullet in show. J.P. Swift, 2ck; 1ckl; 1,3pen. **Silver Wyandottes**—F.M. Stevens, Asheville, made a clean sweep. **Buff Orpingtons**—J.P. Swift, 2ck; 2ckl; 2hen; 3,4pul; 2 pen. Linwood S. McGhee, Bristol, Tenn., 1 ckl; 1,2pul. **S. C. White Orpingtons**—Elmer C. Moomaw, Bristol, Tenn., 2 hen; 3,4pul. H. Rutter, Gastonia, N.C., 3ckl; 3pul; Mrs. J.S. Coleman, Asheville, 4ckl; 2,4pul; tie 2pul; 1pen. H.B. Neel, 1pul; tie 2pul. Mrs. Fred Rutledge, Asheville, 3ckl. Mrs. C.A. Dobbs, 1ck; 1hen. **Brown Leghorns**—W.V. Felmet, Asheville, 2pul; 3pen. Jno. P. Greene, Charlotte, N.C., 1,2ck; 1,4ckl; 1,3,4hen; 1,3pul; 1pen; American S.C. Brown Leghorn Club cup for best cock, hen, cockerel, pullet. R.O. Patterson, Asheville, 3ckl; 3ck; 4pul; 4pen. J.P. Swift, 2ckl; 2pen. **R. C. Brown Leghorns**—S.P. Mears, Asheville, 1ckl; 1hen. **S. C. Buff Leghorns**—J.S. Wingo, Spartanburg, S.C., 2,3ck; 2ckl; 1,2,4hen; 1 pen. A.O. Ray, Asheville, 3ckl; 3pul; Jno. W. Starnes, Asheville, 1ckl; 3hen; 3pul. Mrs. C.B. Campbell, Asheville, 1ck; 1,2,4pul; 2,3pen. **White Leghorns**—C.G. Brandt, Asheville, 1ck; 4pen. C.P. Hightower, Candler, N.C., 3ckl. W.S. Mathews, Big Stone Gap, Va., 1ckl; 2hen; 1,2pul; 1pen. J.P. Swift, 3,4ckl; 3,4hen; 1pul; 2pen. **Mottled Anconas**—J.C. Wilson, Weynesville, and Ralph Lee, Asheville, captured all prizes. **S.C. Black Minorcas**—W.H. Brown, Asheville, 1,2ckl; 1,2,3,4 pul; 1pen. **Silver**

## CAPON TOOLS

**CAPON** bring the largest profits  
—100 per cent more than other poultry.  
Caponizing is easy and soon learned.  
Progressive poultrymen use  
**PILLING CAPONIZING SETS**  
Postpaid \$2.50 per set with free instructions.  
The convenient, durable, ready-for-use kind. Best material. We also make  
Poultry Marker 25c. Gape Worm Extractor 25c.  
French Killing Knife 50c. Capon Book Free.  
G. P. Pilling & Son  
Philadelphia, Pa.

**MOFFITT'S**  
Perfection Ideal Aluminum Leg Band—12 for 12c; 25 for 25c; 50 for 40c; 100 for 65c. State variety bands are for. Send two cents for sample.  
For Poultry and Pigeons.  
J. MOFFITT, Southbridge, Mass.

## BUFF WYANDOTTES EXCLUSIVELY

Carefully bred for eggs, vigor and the show. I raised 10 pullets from 13 eggs last spring. This year's mating will be fine. My best eggs cheap. Order now.

**PURITY POULTRY FARM**  
A. W. GALLOWAY  
R 6, CLEVELAND, TENN.

## Only Rose Comb Rhode Island Reds

Won this year at Hagerstown, Md., 3rd and 4th pullet, 5th ckl and 1st pen. At Washington, D.C., 5th pullet, 4th ckl, 5th hen and 1st pen. Hot classes at both shows.

Eggs from best pens \$5 per 15  
M. C. RICHARDSON, Jr., Front Royal, Va.

Dr. J. A. Posey, Frankfort, Ky.  
announces the sale of his entire lot of

**BUFF ORPINGTONS to  
MRS. S. C. BRIDGEWATER,  
Dixon Springs, Tenn.**

He has only a very few White Orpingtons to dispose of

## Ferguson's White and Silver Laced Wyandottes

Bred for utility as well as show purposes. They are layers because they are layers all the year round. Every pen headed by prize cock or cockerel. Eggs \$1.50 per setting of 16.

**Ferguson's Wyandotte Yards**  
NEW MIDDLETON, TENN.

## MOTHER HEN INCUBATOR & BROODER

We are not trying to see how cheap we can make a machine. If you want a cheap machine, don't bother us, we are busy. If you want a good one send for our Book No. M. We allow 30, 60 or 90 day's trial to prove it yourself.

**AUTOMATIC HATCHING CO., Holly, Mich.**

**RAT** MITE Proof, Brood Coops, Non-Freezing Fountain, Trap-Nests, Egg Crates, etc.  
C. HOSKINS & CO., Dept. I, Quincy, Ill.



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WOOD,Jr."  
Bred and  
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ville Poul-  
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Won 2nd  
at Nash-  
ville, and  
3rd at  
Memphis,  
1909.

## R. C. RHODE ISLAND REDS

are the best breed for this section, because they are fine winter layers, quick growers, and the hardiest chickens yet produced.

Eggs, \$3.00 per 15

## McMINNVILLE POULTRY RANCH

McMINNVILLE, TENN.

## EGGS FOR HATCHING AND STOCK IN SEASON

From Prize Winners. Eggs \$1.50 and \$1.00. S. C. Mottled Anconas, Rhode Island Reds, Barred Rocks, Brown Leghorns. Toulouse Goose Eggs, 30 cts. each. L. M. BARRETT, Morristown, Tenn.

### INCUBATOR OIL

You can increase your hatch twenty-five per cent by using in your incubators SOLINE OIL

No Smoke, no Odor, a perfect Oil, made from premium Pennsylvania Crude.

Orders filled from Knoxville and Chattanooga, Tenn., High Point and Greensboro, N. C., Baltimore and Cumberland, Md. Address

TENNESSEE OIL COMPANY,  
K. & O. Ry. Knoxville, Tenn.

**CHICKS** DAY OLD CHICKS SHIPPED  
ANYWHERE BY EXPRESS **CHICKS**  
10c EACH. EAST CHARLOTTE POULTRY YARDS  
CHARLOTTE, N. CAROLINA

*Spangled Hamburgs*—F.M. Stevens, Baltimore, N. C., and Chas. Freck, Asheville, captured everythng. *Cornish Indian Games*—John L. Jolly, Greenville, S. C., 1,2ckl. A.R. Robbins, Asheville, 3 ckl; 1, 2, 3, 4 pul. *Mammoth Bronze Turkeys*—Terrell Justice, Asheville, 1 tom; 1,2hen. *White Holland Turkeys* Dr. Carl V. Reynolds, Asheville, 1 tom. *Muscovy Ducks*—Mrs. Connally Coxe, Asheville, won everything in sight. *Indian Runner Ducks*—J. C. H. Wilson, Waynesville, 1 drake; 1,2duck. *Imperial Pekin Ducks*—J.C.H. Wilson, Waynesville, 1 drake; 1 duck.

### Awards at Huntington, Ala.

*Rhode Island Reds*—Horace M. Layman, 1,2,3ckl; 1,3hen; 1,3 pul; 1,2pen; 5 specials. Tyler Bros., 1ck; 2hen. W. T. Roberts, 2,3ck; 3,4pen; 5pul. W.L. Wall, 4hen; 4ck. W.R. Stephenson, 5 pen. F.R. King, 5hen; 5ck. *Buff Orpingtons*—J.D. Bush, 1,4pul; 4hen. S.E. Wasson, 1ck; 1,3hen; 1pen; 3pul. Ben P. Hunt, 2pul; 2hen tie. *Black Orpingtons*—Eugene Lents, 1 ckl; 1, 2, 3 pul. *White Wyandottes*—W. T. Roberts, 1, 2 hen; 1ck; 1,2ckl; 1, 2, 3 pul; 2 pen; 5 specials. *Silver Laced Wyandottes*—W. H. Belle, 1ckl; 1,2,3,4pul; 1pen. *White Rocks*—Mrs. D.H. Turner, 1ck; 1,2,3,4pul 1,2pen; 1,2,3hen; 1ckl. *Barred Rocks*—Stanley Foote, 1,2ckl; B.M. Hoffer, 1ck. *Houdans*—S.E. Wasson, 1,2pul. *White Leghorns*—S.C. Tatum, 1ckl; 1,2,3hen; 1 pen. Mrs. Mary Brady, 1,2,4pul; 1ckl; 2 pen. Dr. J.D. Humphries, 1ck; 2ckl; 3 pul; 3pen. *Black Minorcas*—Dr. W.M. Booth, 1ck; 1ckl; 1, 2, 3 hen; 1,2, 3 pul. *Buff Wyandottes*—Dr. M.R. Moorman, 1 ckl; 1,2,3,4pul; 1pen. *Pit Games*—Martha Darwin, 1ck; 1,2hen; 1pul. B. M. Hoffer, 2ck; 2pul.

## WHITE HOLLAND TURKEYS

Winners at America's leading shows. Write me for price on young and old stock. 100 fine birds for sale, the kind that win.

LEN CRESSWELL, R. 2, Fairland, Ind.

## White Wyandotte Cockerels

For sale (Rion Strain), \$2 each  
Satisfaction guaranteed

## BLACK LANGSHANS OF QUALITY

Eggs from both breeds \$1.50 per 15. A good hatch guaranteed. Write

R. C. MCUMBER, GREENFIELD, TENN.



## Crown Bone Cutter

Hens fed cut green bone lay more eggs. Get a Crown Bone Cutter. Send to day for catalogue. Wilson Bros., Box 816, Easton, Pa.

BEST MADE  
Lowest  
in Price

## Greider's Poultry Book

Better, Bigger  
than ever



THIS BOOK  
tells how and  
where to buy  
stock, eggs, in-  
cubators and  
supplies at rea-  
sonable prices.  
Don't miss this  
chance.

B. H. GREIDER, Box 101, Rheems, Pa.

## BLACK LANGSHANS

Imported and home bred stock of the highest type.

## R. A. HEWES

CRETE, ILLINOIS

## OVERSTOCKED

We will sacrifice two of our Scotch Collie bitches in order to make room.

Lady Queen, two and one-half years old, beautifully marked, sable and white.

Tennessee Alix, twenty months old, almost white.

Both bitches registered, and will breed them free of charge. Pedigrees furnished. Will sell for \$25.00 each.

## KNOX COLLIE KENNELS

617 Gay St., KNOXVILLE, TENN.



## BRED FOR LAYING.

35 Best breeds poultry. See my big circular illustrated in colors, before you place that order for stock or eggs. Prices reasonable. It will please you. It's free. 2c. stamp for mailing. John E. Heatwole, Harrisonburg, Va.

## Wear an A. P. A. Button



Sold to mem-  
bers of the  
American  
Poultry Asso-  
ciation only.

All members should wear a button. Enamored in colors. Price 50c.

I will furnish an electrotype of this design, which is just the thing for your letterheads, envelopes, etc. Electros are made in three sizes—half-dollar, quarter and dime—either size sent for 50c. Get one of these emblems for use on all of your stationery. Address

L. B. AUDICIER,

Secy.-Treas. South Central Branch A. P. A.  
KNOXVILLE, TENN.

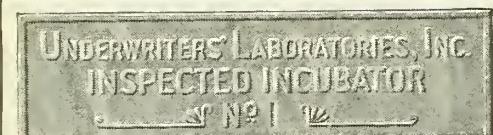
JEWELERS  
EST. 1868

HOPE BROS. 519 Gay Street  
KNOXVILLE, TENN.

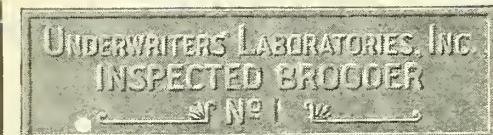
# To the Chicken-Raiser Who Wants Biggest Hatches - Healthiest Broods

**D**ON'T make the big mistake of "experimenting up" to Cyphers quality. Get the best at the beginning. First or last—the Cyphers is the most economical proposition you can possibly consider.

It has the reputation! Used by more Government Experiment Stations, more large, practical poultry plants, fanciers of national reputation—than any other.



Form of Brass Label to be found (in serial numbers) on every 1910 Standard Cyphers Incubator



Form of Brass Label to be found (in serial numbers) on every 1910 Standard Cyphers Brooder.

No bother with moisture, heat or ventilation troubles. The Cyphers is a hot-air incubator—because that is the best system. A metal tank is bound, sooner or later, to leak. It will accumulate sediment. That makes uneven heat.

Our Patented Diffusive Principle applies

the heat gently and evenly through porous diaphragms; diffuses and draws it out through a lower set of diaphragms. No air currents or direct drafts to chill the eggs. The Cyphers is a genuine non-moisture incubator. It also is self-ventilating.

The self-regulating device is perfect.

The Cyphers were the first inspected and insurable incubators and brooders. Every Cyphers Incubator and Brooder bears the official Inspection label of the Underwriters' Laboratories, placed thereon under the direction of the National Board of Fire Underwriters.

#### Cyphers Incubators are Guaranteed to You.

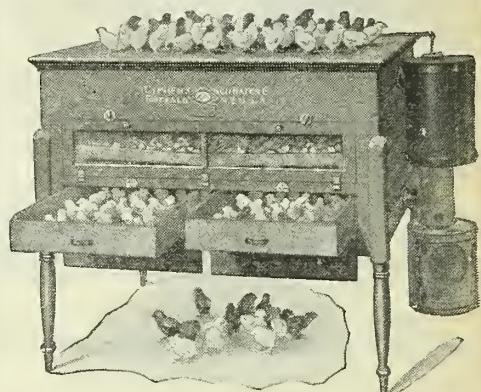
Test a Cyphers Incubator at our risk. Use it for four hatches—90 days.

If it doesn't prove all that we claim for it as a standard incubator—return it, after FAIR TRIAL, within 90 days—and your money will be refunded. Learn all about our \$40,000 experimental and demonstration Poultry Farm. Seven popular varieties. Stock and Eggs for sale. Write for our 1910 160-page Cyphers Catalog—more handsome and interesting than ever before.

Address Nearest Office

## Cyphers Incubator Company, Dept. 13,

Buffalo, N. Y.; New York City; Chicago, Ill.; Boston, Mass.; Kansas City, Mo.; Oakland, Cal. Reliable agents in principal cities and towns. (2,000 selling agents.)



Fill out and sign the coupon below:

#### COUPON FOR YOUR CONVENIENCE

Cyphers Incubator Co., Dept. 13, Buffalo, N. Y.

Gentlemen:—Please send me your 1910 Catalog without obligation to me. I am interested in a ..... size incubator (or) a ..... size brooder.

Name.....

Address.....

#### Awards at Pulaski, Tenn.

S. C. R. I. Reds—J.R.D. Williams, Asper Hill, 1ck; 3pul; 2pen. H.L. Aymett, Pulaski, 1pul; 2,3ck; 2ckl; tie 3 ckl; 1,3pen. John Burns, Pulaski, tie 3 ckl; 2pul. R. C. R. I. Reds—John Burns, 2ckl; 2,3pul. Barred Plymouth Rocks—Mrs. H.A. English, Pulaski, 1ck; 1,2ckl; 1,2,3pul; 2,3hen; 1,2pen. Black Orpingtons—Eugene Lewis, Pulaski, 1,2hen; 1, 2,3pul; 1,2ckl; 1,2pen. Buff Orpingtons—J.B. Abernathy, Pulaski, 1,2,3pul; 1,2,3 hen; 1ck; 1pen. S. C. W. Leghorns—Fagan Booth, Pulaski, 1,2,3ckl; 1,2,3pul; 1,2,3hen; 1,2pen. S. C. Brown Leghorns—Dave Martin, Pulaski, 2ckl; 2,3pul. White Wyandottes—Mrs. J.B. Oakes, Pulaski, 1,2,3hen. Columbian Wyandottes—W.B. Romine, Pulaski, 1,2,3hen; 1,2,3ckl; 1ck; 1,2,3pen; 1,2,3pul. Pit Games—W.V. Dunivant, Pulaski, 1ckl; 1,2pul. Buff Cochin Bantams—Lewis Culps, Pulaski, 1ckl; 1,2pul. White Cochin Bantams—W.B. Romine, 1ck; 1,2,3hen; 1,2,3pul; 1,2,3ckl; 1,2,3pen. Golden Seabright Bantams—Lewis Culps, 1ck; 1ckl; 1,2,3hen, 1,2pul.

For S. C. Buff Leghorns of quality, write Robt. P. Adams, R. 1, Lynchburg, Va. His birds are winners. At Washington, D. C., on six entries he won 1st cock, 1st cockerel, 1st hen, 4th hen, 2nd pullet, 4th pullet.

S. E. Truan, Fountain City, Tenn., starts an ad in this issue. He is a careful breeder, and you will do well to look up his ad and write him if in need of fine S. C. White Leghorn and Partridge Wyandotte eggs for the season.

At the recent Cincinnati show Mr. Wm. K. Lewis won, on five entries of Buff Wyandottes, 1st and 2nd cock, 3rd cockerel, 3rd hen, 1st pullet. Mr. Lewis has birds that will make winnings anywhere.

Everyone interested in S. C. White Leghorns should send to N. V. Fogg, Mt. Sterling, Ky., asking for his mating list which is now ready for distribution. Mr. Fogg will deal in an honorable manner with you; and as for quality, he has the best. His prices are always reasonable.

H. E. Cain of Asheville, N. C., writes us that with his Columbian Wyandottes he has won, at Burlington, N. C., five firsts, three seconds, best Wyandotte, best American Class; at Charlotte, N. C., four firsts, second best display, best pen in show, all varieties competing; at Gastonia, N. C., 5 firsts; at Asheville, N. C., three firsts, three seconds.—a truly wonderful record. We have seen his birds; they are A 1.

## NOW'S YOUR CHANCE TO BUY "BARRED ROCK" COCKERELS

to head your breeding pens. Cockerels of quality, fine, rich, dark and snappy barring, full of strength and vigor, and fine, large, healthy birds. Remember I breed only the cockerel mating of "BARRED ROCKS."

Let me know the kind of bird you want and I will quote rock bottom prices.

**CLARENCE YOUNG,**

**SWEETWATER, TENN.**

**Dozier's Famous Rocks**

Our good friend C. H. Dozier, of Marion, Ala., has been making some extra nice winnings this season with his "Famous" Barred Rocks. At Asheville he won 1st, 2nd hen; 2nd pen; 3rd cockerel; special. At Gadsden he carried away 1st pen; 1st hen; 1st, 2nd cockerel; 1st, 3rd pullet; 2nd cock; silver cup for best pen B. P. Rocks in show. Mr. Dozier says that he is very busy now mating up his yards, and adds: "By the way this is the most important part of the poultry business—knowing how to put your birds together so that the eggs you sell your customers will produce winning stock for them." Dozier's products will not disappoint you; try him and see.

**Alexander's Reds**

At the Gastonia, N. C., show, November 30-December 3, 1909, Mr. S. C. Alexander, of Asheville, N. C., won 1st cockerel, 3rd cock, 3rd pen, best colored and best shaped cockerel in show, in an extra large class. At Asheville, N. C., December 8-10, 1909 his winnings were, 3rd, 4th cock; 2nd, 3rd, 4th hen; best colored hen; 4th pen; best display. Mr. Alexander writes:

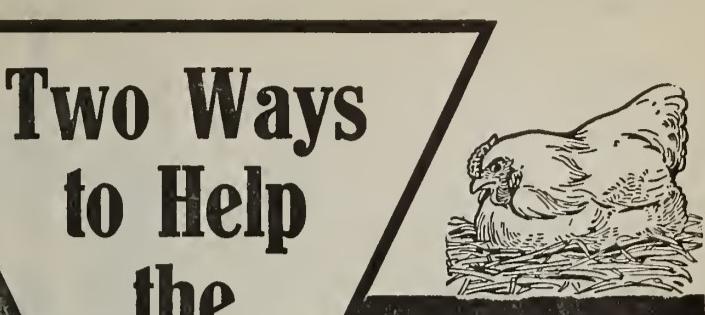
"These are my winnings on S. C. Rhode Island Reds, the best chicken for all purposes that can be raised. I have raised chickens for twenty years; have had six different breeds; but for eggs and broilers the Reds are ahead of any, and in the show-room they are all O. K." See his ad elsewhere in this issue.

**How About Your Fences?**

No mistake among the poultry raisers is so common or more expensive than that of buying light-weight, cheap poultry fence. Don't make that mistake. A good fence costs much less in the long run. Send to the Brown Fence & Wire Co., Dept. 37, Cleveland, Ohio, for President Brown's eye-opening book on this fence question. He manufactures fence of all kinds



**Two Ways to Help the Hen!**



## **GERMO-ZONE**

is the  
**BEST PREVENTIVE**  
**and CURE for ROUP**

Digestible protein is all that counts for results in poultry feeding. That's what makes eggs—furnishes strength and vigor to the fowl. A food may be rich in protein and still of no real value to the poultryman unless that protein is digestible. The following letter will show how the big poultrymen have solved this problem, and should prove the real value of

**LEE'S EGG MAKER**

in feeding for eggs. Mr. Hammons is manager of one of the largest (if not the largest) poultry farms in the world; his experiments have extended through a period of years and here is his letter, in his own words, under date of Oct. 25th, 1909.

Geo. H. Lee Co.

Gentlemen.—I just noticed in one of your books copy of my letter to you of two years ago showing phenomenal results I received from feeding Egg Maker during December, 1907. (Average per hen 16.3 eggs, at a feeding cost of 6½¢ per dozen). But this year my yearlings beat all previous records in the history of our business, having averaged 41 per cent egg production during the moulting season. They are just finishing the moult and in fine condition. Last year during the moult the flock averaged 38 per cent; the year before 33 per cent. I attribute my success entirely to my method of feeding—proper proportion of good digestible protein which I have found only in Lee's Egg Maker.

(Signed) PACIFIC POULTRY CO.,  
Los Angeles, California.  
D. H. HAMMONS, Supt.

Digestible protein is what the scientific poultry feeder searches for; it's what you want for your fowls. That which is a profitable food for poultrymen with 10,000 layers will be of proportionate value to you. Lee's Egg Maker is not a medicine in any sense of the word, but a scientific food product based on Mr. Lee's observations during his more than twenty-five years of actual work with poultry. It is not a theory but a reality. Contains not a particle of cheap and worthless filler and is of equal value for laying hens, all penned-up poultry, or as a growing food for little chicks.

We guarantee it can be fed to the exclusion of all other forms of meat food at less feeding cost and with better results from every standpoint.

Price: 25-lb. pail, \$2.00; 100-lb. drum, \$7.00; freight paid in 100-lb. lots. Handled generally by merchants, but if your dealer doesn't have it, send your order direct to us.

GEO. H. LEE CO., 1113 Harney St., Omaha, Neb.  
General Agents everywhere. Write for name of one nearest you.

**HOVER****CLOSE-TO-NATURE****BROODER**

A scientific invention very close to nature. Three life principles found in no other: Warmth by Conduction; Ventilation by Induction; Non-Piling-up by Construction. Brooders for orchard and field and Independent Hovers for instant use in box or shed. Not playthings or dollar "systems" but big double brooders and Hovers. Practical and successful. Double tops, triple floors and many other great improvements. Need little attention. Eminently the brooder for the busy man and the farmer. Given a most remarkable reception by scientific and successful poultrymen. Brooder Book Free.

CLOSE-TO-NATURE COMPANY, COLFAX, IOWA.

**OUR 1910 MATING LIST**

is now ready and we will be pleased to mail a copy to all who are interested.

**"PEERLESS" BARRED ROCKS**

are bred primarily for utility purposes, yet they have the winning habit. At the 1909 Mississippi-Louisiana Fair (the only show we made) they won two blues and two specials on two entries. Address

**PEERLESS POULTRY YARDS, Box 25, Washington, Miss.**

**PRIZE WINNING S. C. BUFF ORPINGTONS**

Won 2nd ckl. and 4th pullet at Tenn. State Fair, Nashville, Sept., 1909; 1st ckl., 1st pullet and 2nd pen, Alabama State Fair, Birmingham, Oct., 1909; and at McMinnville Poultry Show, McMinnville, Tenn., Dec., 1909, 1st ckl., 1st, 2nd, 3rd Pullet, 1st pen and 5 specials, one of them being for the highest scoring bird in the show, any breed. Orders booked for eggs, \$3 and \$4 per setting. Mating list free.

**C. B. MOORHEAD,**

**Lynchburg, Tenn.**

but seems to take especial pride in the fence he makes for poultry raisers. The substantial construction of this fence enables you to set your posts farther apart than is required by the ordinary poultry fencing, so that you can erect a real Brown fence strong enough to turn any animal on your place for less money than it would cost you to put up cheap poultry netting. The Brown fence is treated by a process which amounts to double galvanizing and easily doubles the life of the wire.

**A Business Change**

We are informed by Dr. J. A. Posey of Frankfort, Ky., that ill health has forced him to dispose of his entire flock of White and Buff Orpingtons, including his many prize winners and a fine bunch of youngsters. Mrs. S. C. Bridgewater, of Dixon Springs, Tenn., has purchased all of his Buffs and will be glad to continue to serve Dr. Posey's many customers. We regret to lose Dr. Posey as an active breeder and we wish Mrs. Bridgewater most abundant success.

**How Mae Edna Wilder Got Rid of a Double Chin**

"I removed my double chin and reduced thirty pounds in less than six weeks," says Mae Edna Wilder, who stands five feet high, weighs 120 pounds and is a picture of perfect health. "I did this by a process which is my own discovery—a process of external application. I simply apply the treatment to any part of the body where superfluous flesh exists and it vanishes as if by magic. Five minutes every other day for two weeks is all the time needed, and one's most intimate friends need not know anything about it. I am so grateful for my own relief that I will give free advice to anyone who suffers as I did. I consider a double chin one of the most unsightly physical defects, and superfluous flesh is just extra weight that one must carry with them everywhere and all the time. I feel ten years younger and a hundred-fold more active since I lost mine." Any interested person who will write to Mae Edna Wilder, Dept. 1925, Rochester, N. Y., will be told how to find relief within two weeks.

**A Correction**

We have received a communication from Oliver Rutherford, of Eutaw, Ala., in which he says that we made an error in publishing the winnings of the White Wyandotte class at Birmingham, and that he won 1st, 2nd ckl; 1st, 2nd, 3rd, 4th, 5th pullet, and special for best Wyandotte cockerel and pullet in show.

**To Kill Minks and Weasels**

I saw an article in THE HEN on how to rid the poultry yards of the enemies of poultry, especially minks and weasels. The best plan to kill them is with a gun (when possible); the next best way is by the use of nux vomica, which is a sure way if fed to the chickens two or three times a week. It will not hurt anyone to eat a chicken that has been fed nux vomica, but will kill everything that is born with eyes closed. Better be sure that the cat does not get any chicken while you feed your chicks nux vomica. It will kill all hawks and crows.—J. W. SNODDY, Morristown, Tenn.

The Rosebank Poultry Farm, F. G. Davis, proprietor, R. 10, Nashville, Tenn., have made phenomenal winnings this season. This farm breeds S. C. Rhode Island Reds of the finest quality, and it would require quite a lengthy article to record, in detail, a complete list of its winnings during the last few months, including a most enviable showing at Nashville, Memphis, Birmingham, Augusta and Lebanon, and second pen on one entry at Chicago, in what is said to have been the largest and strongest class of Reds ever exhibited in America. Mr. Davis will answer all inquiries cheerfully and he is a nice man to deal with.

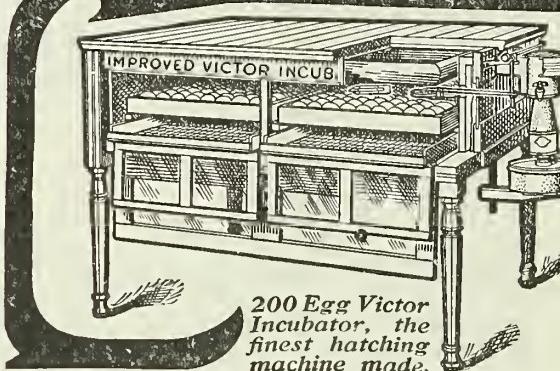
**KRYSTAL WHITE ROCK**

**COCKERELS AND PULLETS FOR SALE**

Some good exhibition birds in the bunch. I book egg orders now for early spring. Pens 1 and 2 consist of members of 1st and 3rd prize pens at Clinton, Ia., show last month. Pen 1, \$3 per 15; Pen 2, \$2 per 15.

**HARRISON RUTH, Morrison, Illinois**

# BEGIN NOW



200 Egg Victor  
Incubator, the  
finest hatching  
machine made.

This is not too soon to plan your poultry work for the coming season. If you are going to need a new incubator or brooder this season, please write us today.

We can save you money. The lumber, copper and fittings we are putting into our machines this season we bought one year, two years or three years ago, before the present high prices. We do by machinery what others do by hand labor. The result is a lower price to you for the same quality of machine. We use seasoned lumber, we put heavy copper into our tanks and boilers. We build carefully—our doors fit and close tightly, our lamps burn clear and bright, our regulator keeps the temperature at 103 degrees. When you get the Victor you get machines that will hatch and raise chicks. Estab. 1867. Drop us a postal for our catalog.

**GEO. ERTEL CO.**  
114 Kentucky St. QUINCY, ILL.

## COLUMBIAN WYANDOTTES

52 regular and special premiums won by the birds we are offering eggs from this season. Circular for the asking.

**H. E. CAIN, R. F. D. No. 3, Asheville, N. C.**

## SICILIAN BUTTERCUPS

Eggs and stock for sale from the original imported blood. Unequalled for eggs. Circular sent upon request.

**MRS. J. S. DUMARESQ**  
**CATO'S HALL,** **EASTON, MD.**

## POULTRY MEN

Send 10c for our 1909 Catalogue. Chuck full of useful information. Describes and illustrates 35 varieties.

**YOU CAN'T AFFORD TO BE WITHOUT IT.**

## EAST DONEGAL POULTRY YARDS, Marietta, Pa.

## JOYOUS GARDE POULTRY YARDS

**SINGLE COMB BUFF ORPINGTONS EXCLUSIVELY**

Mr. T. Reid Parrish, Licensed Poultry Judge, Nashville, Tenn., says: "Mrs. Bridgewater has the best Buff Orpingtons I have seen, and the best matings." Mr. F. Bralliar, Poultry Judge and Expert in Buffs, says: "Mrs. Bridgewater has the best male birds I ever saw. In the great Northern and Western shows, not even at the World's Show did I see such perfect Buff Orpingtons. I consider her 2nd Boston cockerel the finest cock of this breed in America."

75 Blue Ribbons and 6 Silver Cups in 1908. 1st Madison Square Garden cock.

Imported Pen of Crystal Palace Minorcas.

**MRS. S. C. BRIDGEWATER,**

**Dixon Spring, Tenn.**

Vice-President American Orpington Club for Tenn.; member National S. C. Buff Orpington Club.

**Wonderful Courage of Airedales**

Illustrative of the matchless pluck of the Airedale, there comes a true story from South Africa that will require some beating. One Healy, a game warden, or ranger, was the owner of an Airedale named Jim. Healy one day this summer came across the spoor of four lions. He had three dogs with him, Jim one of them. They took a spoor and stood up a lioness, which was promptly dispatched by the ranger. Then another spoor was followed up, but this was intersected by yet another—and along this intersecting spoor Jim, unknown to his master, trailed it alone. Some minutes later Healy discovered the gallant Airedale in his last throes, the victim of his own temerity. In getting to close quarters Jim had underestimated the weight and murderous qualities of a lion's fore-paw. His sorrowing master would now give his all to be the owner of a "brother of Jim, if there is one in the world." There is a devil and abandon in the Airedale that is positively worshipful of everything masculine. He cannot be given the wrong commission.

—Exchange.

The National Golden Wyandotte Club offers to all shows this season five special ribbons, one each for the best cock, best hen, best cockerel, best pullet and best pen to be competed for by members only. Write W. G. Smith, Secretary-Treasurer, Bannock, O., for further particulars as to these ribbons and the Club's silver cup offer to each State having ten members. G. A. Harrison, of Nashville, Tenn., is one of the Southern officers of the club and will take pleasure in answering all inquiries.

**McFerrin's Phenomenal Winnings**

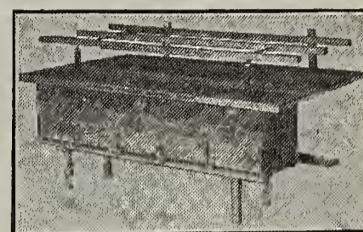
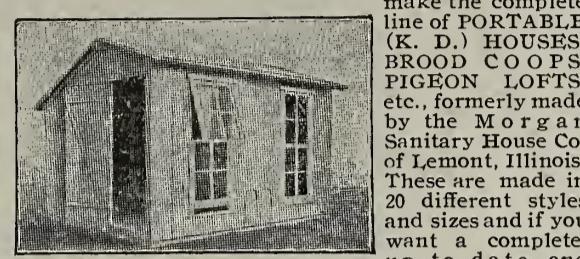
It would be hard to gain a more enviable record in the show-room than that of Sanford McFerrin, of Springfield, Tenn. Mr. McFerrin's White Rocks have never been defeated. With J. C. Fishel, the noted specialist of Hope, Ind., as judge, Mr. McFerrin won, at the recent Springfield show, 1st, 2nd, 3rd cock; 1st, 2nd, 3rd, 4th cockerel; 1st, 2nd, 3rd, 4th hen; 1st, 2nd, 3rd, 4th pullet; 1st, 2nd, 3rd pen; and best breeding pen in American class consisting of six females and one male. When it is remembered that these prizes were won in extra strong competition, the record appears indeed phenomenal. Mr. McFerrin breeds Ringlet Barred Rocks, also, of the very finest quality, and in doing business with him you may be assured of getting a "square deal" every time. See his ad. in this issue.

Bernice N. Anderson, of Springfield, Tenn., starts an ad. in this issue. He made some nice winnings at the recent Springfield show: on S. C. Rhode Island Reds, 3rd, 4th, 5th pullet; 4 cockerel; 2nd pen, and 2nd best breeding pen in American class; on S. C. White Leghorns, 1st, 2nd, 3rd, 4th hen; 2nd cockerel; 3rd pen.

At the recent Springfield Show, Mrs. Louis Downer, Guthrie, Ky., won six premiums on five of her S. C. White Leghorns: 1st cockerel; 1st, 2nd, 3rd, 4th pullet, and 2nd pen.

# DON'T BUILD

that new hen house or fix up the old one until you get our large new 100 pp. catalog (over 100 illustrations) telling all about Potter Poultry Fixtures, Perfection Feed Hoppers, Simplex Trap Nests, feeds and supplies of all kinds. Potter Fixtures have been on the market over 8 years and are used by thousands of Poultry keepers. They are complete, convenient and sanitary, made in 3 styles and 12 sizes to fit any hen house. We now



make the complete line of PORTABLE (K. D.) HOUSES, BROOD COOPS, PIGEON LOFTS, etc., formerly made by the Morgan Sanitary House Co. of Lemont, Illinois. These are made in 20 different styles and sizes and if you want a complete, up-to-date and cheap house or coop of any kind you should not fail to send for large illustrated catalog or sell your laying hens; use the POTTER SYSTEM and these goods. **DON'T KILL** pick out the layers from the loafers and keep only healthy laying hens. The Potter System is the greatest discovery of the century in the poultry world and is used by over 25,000 poultry keepers. You can save dollars every year by using our system, because you keep only layers. Our new 100 pp. book entitled "Don't Kill the Laying Hen" is a revelation to poultry raisers on the subject of laying and non-laying hens and egg production. Potter Poultry Products are for Particular Poultry People, and if you are particular and want to make more money on your flock you will write today sending 2 red stamps to cover postage on our large catalogs and circulars. Please mention this paper when writing.

**T. F. POTTER & CO. : Box 66 : Downers Grove, Illinois**

## DOBBS' SINGLE COMB RHODE ISLAND REDS

The big laying and winning strain. They win and lay when others fail. I have the finest collection of S. C. Rhode Island Reds in the South and they are bred to lay and win and they do both.

They have won this season at every show entered. I will this month exhibit them at two of the largest shows, Knoxville, Tenn., and Atlanta, Ga.

**WATCH FOR MY WINNINGS AT THESE TWO BIG SHOWS**

My pens are mated by the best judges, to produce the best results and winners are sure to come from my REDS. Eggs \$2.00, \$3.00, \$5.00 and \$10.00 per setting according to quality and prizes won.

**"CRYSTAL" WHITE ORPINGTONS**

Now, if you are looking for the big winter layers and want to find some White Orpingtons that are "White as Snow" you want to send for my mating list. I have more prize winning "Crystal" White Orpingtons in my yards than any other breeder in the South and you are sure to get birds that will win from eggs bought of me. I will satisfy you or refund your money.

**C. A. DOBBS, Box "E"24, GAINESVILLE, G.A.**  
Member of National S. C. and Rhode Island Red Club of America.

## BOYD'S S. C. BROWN LEGHORNS

Winners of 31 ribbons on 31 entries in three of the largest Southern shows, including more 1st and 2nd prizes than all competitors combined.

If you want strictly high class birds or eggs write me. Matings all made.

**DR. H. T. BOYD,**

**SWEETWATER, TENN.**

**S. C. Buff Orpingtons, S. C. Buff Leghorns, S. C. White Leghorns**

**The Three Leading Strains of America**

My Birds are winners of the blue, and will win for YOU. If you want eggs from good, healthy stock, that produce good healthy chicks, send me your orders. My prices are reasonable, and I can supply any number you may want.

**F. M. BOSTICK, Box 423,**

**HOT SPRINGS, ARK.**

**Kentucky Rooster Wins**

At the big St. Louis Poultry Show recently the winner of the double grand prize at the poultry show in the Coliseum was a White Wyandotte cockerel owned by W. E. Johnson & Son, of Lexington, Ky. One of the two prizes won by the Lexington rooster is a silver cup offered for the whitest bird in the show, the other being a gold cup offered for the best male bird in the show. The importance of the Bluegrass rooster's victory cannot be realized without bearing in mind that the total number of fowls entered in the show was more than 5,000. Another exhibitor announced the intention of offering Mr. Johnson \$1,000 for this prize-winning bird. The bird weights 8½ pounds, and hence is conceded to be worth \$117 a pound. Mr. Johnson will use this grand cockerel in his breeding pens the coming season.

The Daniel Suburban Poultry Yards, of Hopkinsville, Ky., have some exceptionally fine Barred Rocks, and customers are always pleased with stock coming from this farm. Mr. C. L. Daniel, the proprietor, is a most agreeable and accommodating man to deal with, and deserves and merits the patronage of prospective buyers.

The second annual show of The Hoosier Fanciers' Association, will be held at Anderson, Ind., Feb. 15 to 19, 1910. Judges, Geo. Ewald and D. T. Heimlich. Their first show last year brought exhibitors from five states, seven hundred entries and every one pleased.

The Interlocking Fence Company, Box 36, Morton, Ill., are selling a 26-inch hog-tight fence for 15¾ cents per rod; a 34-inch fence for 21½ cents per rod and a 47-inch fence of heavy wire for 24½ cents per rod. Ideal Barbed Wire (80 rod spool) for \$1.55. Write for free catalogue.

**Rockingham, N. C. Show**

The first annual show of the Rockingham, (N. C.) Poultry Association will be held January 25-28. A great show is looked for, and if we may judge by their premium list, there should be no disappointment in this regard.

For S. C. Rhode Island Reds and "Crystal" White Orpingtons write C. A. Dobbs, Box E 24, Gainesville, Ga. Mr. Dobbs is a responsible business man and we have found no reason to doubt any statements made by him. He claims to have more prize winning "Crystal" White Orpingtons in his yards than any other breeder in the South, and in S. C. Reds he has birds with a record behind them. Mr. Dobbs has two ads in this issue. Look them up and write him.

E. L. Magri, Box 305, Lynchburg, Va., is offering some rare bargains in S. C. White Leghorns in this issue. Mr. Magri has birds of exceptional quality that have won at the best shows. This is your chance to get some first prize winners at a reasonable price, and you should look up his ad and place your order at once.

**RARE QUALITY**

in Trubar Barred Rock breeding cockerels. A limited number left, the cream of the flock, birds that will surely breed you winners. Write for prices. Every bird guaranteed to please.

**J. E. HAGE,** Box 382 **Asheville, N. C.**

**FRANK'S S. C. R. I. REDS**

Won at Nashville, 1909, 1st cockerel; 2nd and 3rd cock; 2nd and 4th hen; 4th pen; Cup, Medal and Diploma for *best cockerel in the show*. Won at Augusta, 3rd cockerel, 4th cock (showed no females); at Memphis, 2nd cock. Eggs \$2 to \$10 per 15; \$3 to \$15 per 30.

**JAMES M. FRANK,** 510 Church, **NASHVILLE, TENN.**

**CHOICE POULTRY YARDS**

We have selected 10 high scoring cocks and cockerels, 40 high scoring hens and pullets of each breed, hatched from our prize winners—S. C. Brown and White Leghorns, Rose and S. C. Rhode Island Reds White Wyandottes, Buff Plymouth Rocks and Buff Orpingtons. These birds are the pick from our 1000 crop, and are fine enough for any show and good enough for the most fastidious breeder. Our prices are reasonable for these fancy birds. We have not the room to properly house more birds, therefore, we are selling the remainder of our flock as utility quality at utility prices. These are fine stock, being hatched from the same parents as the fancy ones. Give us your orders for show birds, fancy breeders and for utility stock. We guarantee satisfaction or refund your money.

**J. P. SWIFT & SON,** Waynesville, N. C.

**ROBERTS' "FAMOUS" WHITE WYANDOTTES RHODE ISLAND REDS**

Built up by the Trap-Nest Individual Record System for Heavy Laying and Fancy Purposes. Won at Huntsville, (Chas. I. Fishel, of Hope, Ind., Judge) Dec. 1-4, 5 firsts, 5 seconds, 2 thirds, 2 fourths, 5 specials on Wyandottes. At Birmingham, won 1st cock, S. C. R. I. Reds, in biggest class of Reds ever assembled in the South. Winnings in two shows this Fall (1909) 29 regulars and 7 specials. Eggs for sale. Book free. When looking for best write, **W. T. ROBERTS, Box 122, GURLEY, ALA.**

**S. C. BUFF LEGHORNS**

Booking orders for eggs from the best in the South.

Eggs \$2.00 and \$3.00 per setting of 15.

**ROBT. P. ADAMS, R. F. D. 1, Lynchburg, Va.**

**BARRED PLYMOUTH ROCKS—INDIAN RUNNER DUCKS**

Two of the best utility strains in the South. Eggs from both breeds, \$1.00 to \$2.00 per setting. \$5.00 to \$10.00 per 100. No stock for sale. Satisfaction guaranteed.

**RIVER VIEW POULTRY FARM,** **W. F. Bayless, Prop.,** **Morristown, Tenn.**

**S. C. BUFF ORPINGTONS**

Some choice cockerels and pullets for sale at reasonable prices. Have mated my stock. Can fill orders for eggs any time. Fertility guaranteed. Write for prices and premium list.

**JAS. H. WHEELER,**

**BOHON, KY.**

**"CHILTON'S LIGHT BRAHMAS"**

are still winning. Three firsts and all club specials at Louisville show, 1909. Four firsts at the Tenn. State Fair, 1909. I have the quality and will sell cheap. Write your wants.

**HOLLY H. CHILTON,** **R. D. 3.** **HARRODSBURG, KY.**

**The WALLACE S. C. RHODE ISLAND REDS FIRST PRIZE WINNERS**

Have your order for eggs booked now and avoid the rush. Write for free mating list and show winnings.

**JOE. L. WALLACE,**

**Dalton, Ga.**

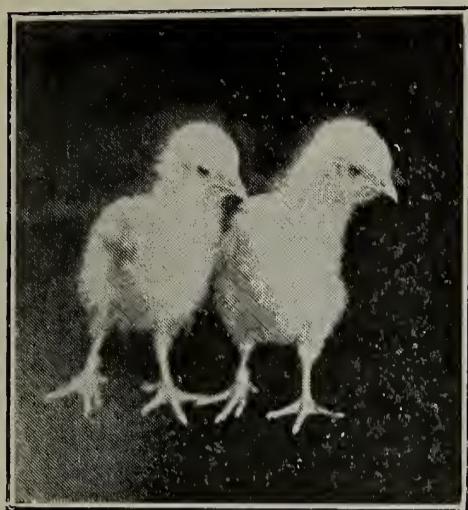
**WEST'S BARRED PLYMOUTH ROCKS**

The kind that win and breed winners. Last winnings, Augusta, Ga., 1909, 1st cockerel (entered only one); 2nd cock, 2nd and 5th pullet; 2nd, 4th and 5th hen; 1st pen (entered only one); two silver cups out of three offered in class.

Eggs from grand exhibition Cockerel or Pullet matings, \$2 per 15. One setting will convince you of the high quality of my birds.

**JOHN F. WEST,**

**Graniteville, S. C.**

**"DIXIE" BABY CHICKS**

Leg-Banded and recorded, from hatcher to maturity

The "Dixie" booklet illustrates, describes, and quotes prices on stock and eggs. Shall we send it to you?

G. FRANK PHILLIPPE, BOX B, MAGNOLIA, MISS.

**LAYMAN'S "Red Rex" Strain of S. C. R. I. REDS**

Winners of nine firsts, four seconds, three thirds, two fourths and seven special premiums this season in three large shows. If interested in high grade Reds at prices that will please you write for my matings. Glad to answer all inquiries.

**HORACE M. LAYMAN, HUNTSVILLE, ALA.****BUFF WYANDOTTES  
The Best All-Purpose Fowl**

My matings are the best in the South. Eggs, \$3 per 15; \$5 per 30. Get my show record—it's a good one. Write for circular.

**R. C. RICHEY**  
"FIVE ACRES"  
**MCKENZIE, TENN.**

Member of the American Buff Wyandotte Club

**SUPERIOR QUALITY BREEDS**

(At St. Louis, 1909)

Awarded Highest Honors. Andalusians—1 cock, 2 hen, 2 pullet. Columbians—2 hen, 4 prizes and 6 entries. Over 5000 birds competing—from 22 states. Also won at Tenn. State Fair, including Orpingtons. We have the goods, come to us.

**Martin Poultry Farm, R. 5, Nashville, Tenn.**

**S. C. BUFF ORPINGTONS**  
Eggs, \$1.50 and \$3.00 for 15

**S. C. BROWN LEGHORNS**  
Eggs, \$1.50 and \$2.50 for 15

**S. C. RHODE ISLAND REDS**  
Eggs, \$1.50 and \$2.00 for 15

Winnings, State Fair, Jackson, Miss., 1908, Orpingtons, 1st pen; 1909, Orpingtons, 1st pen, 1st pullet, 2nd cock; Leghorns, 3rd cock.

50 Extra Nice Cockerels at \$2.50 to \$5.00 Each

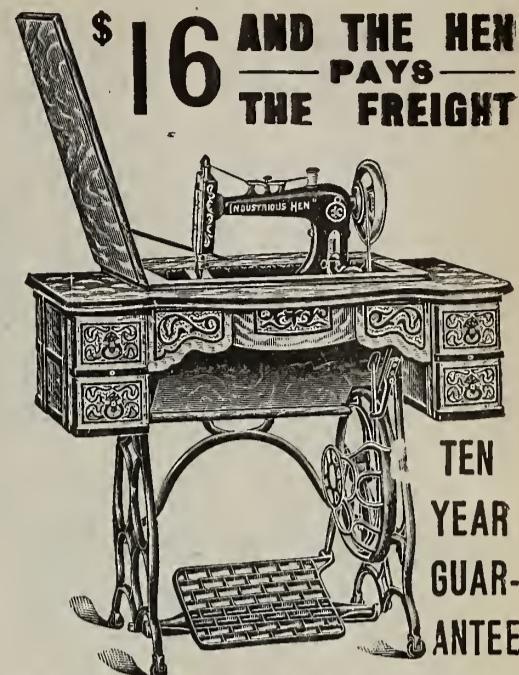
Pekin Duck Eggs, \$1.00 for 11. Fox Terrier Dogs—the very best of ratters. Ask for prices and my mating list, 1910. Correspondence a pleasure.

**M. T. YOUNG, R. 2, Box 3, Canton, Miss.****HATCHABLE EGGS**

Haven't you found a great many of the eggs you bought to set, infertile? Hasn't your experience been, that many of the fertile eggs failed to hatch chicks? And didn't a number of the chicks that hatched, fail to reach maturity, but died, one by one, from no apparent cause?

**"DIXIE"****WHITE PLYMOUTH ROCKS**

are line bred, trap nested, exceptionally continuous layers, and are skillfully mated to produce the greatest number of eggs, that HATCH into hardy, quick-growing chicks, that mature early, are full of vim, energy, and robust health, and conform with the STANDARD, in all sections.



High Grade, Ball Bearing, Noiseless, Easy Running, and the Equal of Any \$50 Machine.

Read the following Testimonials. Some of these people you know.

**DON'T THINK OF BUYING A SEWING MACHINE** until you have investigated the popular and ten year guaranteed *Industrious Hen Sewing Machine*. This machine is manufactured for us by one of the best factories in the world, and we ship it to our customers at exactly what it costs us, plus our advertising and one year's subscription to *THE HEN. Freight is paid* to your railroad station. Send for illustrated circular and testimonials. Thousands are using this machine, and we have never had one word of complaint. It is guaranteed for ten years, is the equal of any \$45 machine on the market, and will be shipped, freight paid, including a year's subscription to *THE INDUSTRIOS HEN* to any railroad station in the U. S. for \$16. Save 60c a week for 27 weeks and you have your machine paid for. Satisfaction or money returned.

**Two Dozen Leg Bands Free.**

You can't tell what your hens are doing unless you leg band them. You have to pay five cents each if you don't put leg bands on before you go to the show, so get your leg bands, now while you can get them for nothing. *THE INDUSTRIOS HEN* has 5,000 of the best leg bands made to give to its readers. These leg bands retail at 15c a dozen. Here's how to get them free. Send us fifty cents for *THE INDUSTRIOS HEN* one year and we will mail you 24 of these leg bands. If you have recently paid your subscription you may renew for another year; or if you will get one of your neighbors to send in fifty cents for his subscription, we will mail you a dozen bands each. This gives everybody a chance to get these leg bands free. Don't wait. Write today to *THE INDUSTRIOS HEN* Co., Knoxville, Tenn.

**Its Value Proven**

Asheville, N. C., Sept. 20, 1909.

The value of *THE HEN* as an advertising medium has been fully demonstrated to me, I am more than pleased with results so far. That the high quality of my fine "Trubar" strain of Barred Rocks is appreciated is proven by the many flattering letters from my customers, I endeavor to always ship just a little better bird than promised, believing that a satisfied customer is the best advertisement on earth, all due apologies to the "HEN."—J. E. Hage.

**A. C. SNODDY**  
BREEDER OF  
**COLUMBIAN WYANDOTTES**

Winnings, Knoxville, 1908, 1 pul., 2 ckl.; 1910, 1, 2, 3, 4 hen, 3 and 4 ckl., 2 pen. Eggs \$1.50 and \$3.00 per 15.

NEWPORT, TENN.

# A Single Comb White Leghorn Opportunity

Must move, therefore will sell my entire lot of highly bred White Leghorns, at low figures, including all my

## PRIZE WINNERS

A RARE CHANCE TO  
BUY FOWLS OF  
HIGH QUALITY....

E. L. MAGRI  
Box 305, LYNCHBURG, VA.

PRICES A MATTER  
OF  
CORRESPONDENCE

### COLUMBIAN WYANDOTTES

Won, Burlington, N. C., Nov. 5-8, 1st hen, ckl., pul., pen, best pen Wyandottes, best American class. Won, Charlotte, N. C., Nov. 25-29, 1st hen, ckl., pul., pen, best pen in show, any variety.

**H. E. CAIN, R. 3, Asheville, N. C.**

### S. C. W. Orpingtons THE STRAIN THAT LAYS

EGGS \$2 per 15  
NO STOCK FOR SALE

J. C. MOORE  
DOOTHAN, ALABAMA

### Secretary's Entry Book

A very compact book, size  $8\frac{1}{2} \times 8\frac{1}{2}$  inches, giving ample space for making entries without crowding. Printed on best quality of paper and handsomely bound. Our simple, labor-saving system of special indexing is a feature that adds much to the value of the book, and affords a great saving of time in making entries.

50 Leaves .....	\$1.00
75 Leaves .....	1.50
100 Leaves .....	2.00

The 50-leaf book gives room for 750 entries; the 75-leaf, for 1125 entries; and the 100-leaf book allows for 1500 entries.

Thus you can select a size suited to the requirements of any show. Send cash with your order and the book will be sent, all charges prepaid. Make remittance payable to

THE INDUSTRIOUS HEN COMPANY,  
Knoxville, Tenn.

## BARRED AND WHITE ROCKS

My birds have never been defeated in show room. Last winnings almost unparalleled. 1st, 2nd, 3rd cock; 1st, 2nd, 3rd, 4th eokerel; 1st, 2nd, 3rd, 4th hen; 1st, 2nd, 3rd, 4th pullet; 1st, 2nd, 3rd pen and best breeding pen in show.

Eggs from best pens, \$3.00 per 15; second pens, \$1.50 per 15.

Day old chicks, \$12.50 and up per 100.

A few exhibition White Rock males for sale—bargains for breeders.

**SCOTCH COLLIES**, the poultryman's friend.

**SANFORD McFERRIN**  
R. F. D. No. 5,

### Awards at Dalton, Ga.

*Barred Plymouth Rocks*—Julian McCamy, Dalton, Ga., 1ck; 1,2,3hen; 1,2,3ckl; 1,3pul; 2,3pen. Mrs. D.Puryear, Dalton, 2pul; 1pen. *Buff Plymouth Rocks*—Mrs. E. L. Jackson, Calhoun, 1ck. Walter R. Davis, Dalton, 1,2,3,ckl; 1,2,3pul. *White Plymouth Rocks*—J. R. White, Dalton, 1,2,3hen. S. C. Brown *Leghorns*—Mrs. W. P. Miller, Dalton, 1hen. Mrs. D.Puryear, 1,2ckl; 1,2,3pul. *S.C.Wt.Leghorns*—W.N.Morse, Dalton, 1ck; 3pul. Dr.S.C.Tatum, Center, Ala., 1ckl; 1,2pul. Mrs. W. P. Miller, 1,2,3pen. *S. C. R. I. Reds*—J.C.Sapp, Dalton, 1,2,ck; 1hen; 3ckl; 1,2,3pul; 1pen. Joe L. Wallace, Dalton, 1,2ckl; 2pen. Walter Bowen, Dalton, 2hen. L. F. Kelly, Dalton, 3hen; 3ck. *Golden Wyandottes*—J.R.White, Dalton, 1,2,3pen; 1ckl. *Partridge Wyandottes*—M.L.Blevins, Dalton, 1ck; 1,2,3hen; 1ckl; 1,2,3pul. *White Wyandottes*—L. D. Routt, Dalton, 1ck; 1,2,3hen. *S. C. Black Minorcas*—Mrs. W. J. Townley, St Elmo, Tenn., 1 ck.; 1, 2, 3 hen; 1ckl; 1 pul. *Houdans*—F. J. Parmalee, Dalton, 1,2,3ckl; 2,3pul. S.H.Painter, Dalton, 1pul. *Pit Games*—David Hix, Dalton, 1pul.

3ck. J.F.Weatherly, Dalton, 2 ck.

Julian McCamy, Dalton, won silver cup for largest and best display of poultry. M. L. Blevins, Dalton, won silver cup for highest scoring cock, hen, cockerel, pullet—one variety. Dr. J. D. Reynolds, Marietta, Ga., silver cup for best display of pigeons. Carlisle Cobb, Athens, Ga., silver cup for best display of Bantams.

### Awards at Hartselle, Ala.

*Rhode Island Reds*—Ballew Bros., New Decatur, Ala., 1ck; 1ckl; 1hen; 1trio; 2pul. J.W.Simpson, Falkville, Ala., 1pul; 2ckl. *White Leghorns*—P.W.Barclift, Hartselle, Ala., 1ck; 1hen; 1,2pul; 1trio; 1ckl. *Brown Leghorns*—S. Humphrey, Somerville, Ala., 1ck; 1pul; 1ckl; 1trio; 2 hen. O. B. Neil, 2 ckl; 2 pul. Mrs. M.W.Ratliff, Center Grove, Ala., 1hen; 1ck. *Partridge Wyandottes*—J. W Simpson, Falkville, Ala., 1hen; 1ck; 1pul; 1trio. *Black Minorcas*—Dr.W.M. Booth, Hartselle, Ala., 1,2hen; 1,2ckl; 1,2pul; 1trio. *White Wyandottes*—J. C. Freem, Hartselle, Ala., 1, 2 ckl; 1 pul. Mrs. M.W.Ratliff, 1,2ck; 1,2hen; 2pul; 1trio. *Black Langshans*—H.J.Thomas, Falkville, Ala., 1ck; 1hen; 1trio. *Buff Orpingtons*—J.D. Bush, 1ckl; 1,2pul; 1trio. *Plymouth Rocks*—T. P. Wood, Hartselle, Ala., 1,2pul; 2ckl. L. B. Sandlin, Hartselle, Ala., 1ck; 1,2hen; 1trio.

### True Reports Appreciated

I want to express my appreciation of the fact that THE INDUSTRIOUS HEN published correct reports of winnings as to Columbian Wyandottes at the Knoxville show last year: while two other publications — one in this state and one in another state—did me an injustice by publishing false reports, stating (in one case, at least) that they were official.—A. C. SNODDY, Newport, Tenn.

## "CRYSTAL" WHITE ORPINGTONS

(Kellerstrass or Cook Strain)

THE BEST IN THE SOUTH

They have won this season at Macon, Augusta and Gainesville, Ga. and at Asheville and Gastonia, N. C. and are still winning and laying.

Watch for my winnings at the two big January shows, Knoxville, Tenn. and Atlanta, Ga.

If you want the best and want to win on White Orpingtons at your show next fall, you should place your order for eggs with me. "Crystal" White Orpingtons are the Big Winter Layers, and my hens and pullets have proven it by laying all through the cold weather this winter.

Eggs \$5.00 and \$10.00 per setting of 15.

I also have the finest collection of prize winning S. C. Rhode Island Reds to be found in any yards in the South and if you are interested in the best all-purpose fowl and want to grow the kind that win, lay and pay, send for my mating list.

**C. A. DOBBS,**  
Member and State V. Pres. American Orpington Club.

**NOTE**

THE CLEARNESS OF OUR CUTS, THEY PRINT WELL

**TENNESSEE ENGRAVING CO.**

719 CHERRY STREET  
CHATTANOOGA, TENN.  
WRITE FOR PRICES

**RUBBER STAMPS AND SEAL PRESSES**  
**S. B. NEWMAN & CO.**  
KNOXVILLE, TENN.

WHEN IN NEED OF  
**BUFF WYANDOTTES**  
be sure and write the old reliable  
Blue Grass Poultry Yards  
WM. K. LEWIS, Prop. DRY RIDGE, KY.,  
Have bred them nine years. Our show  
record is a GOOD ONE.

**INVINCIBLE**  
**S. C. BROWN LEGHORNS**  
and Buff Rocks, score 94 1/4. 50 choice  
breeding and show birds for sale. Photos  
and descriptive circular free.

HARRY T. TRAINER R. 2, Carpenter, O.

**GOLDEN WYANDOTTES**  
(exclusively)

Mapleton Yard Birds continue to win in the  
big shows and they always win when eggs  
are considered. If you like beauty and busi-  
ness combined, write to

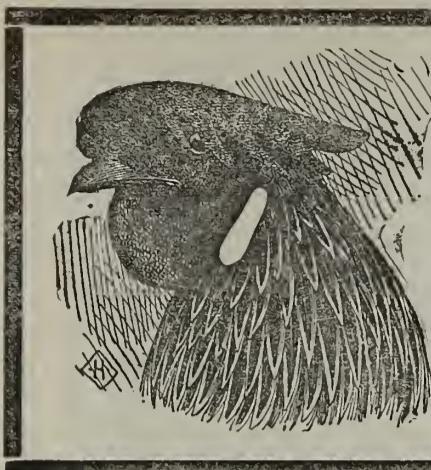
G. A. HARRISON,  
Vice-Pres, Golden Wyandotte Club  
Phone M. 245 Sta. B, Nashville, Tenn.

**JOHNSON'S**  
**WHITE AND GOLDEN WYANDOTTES**

We made clean sweep at Ky. State Fair 1909.  
Breeders of 1st cock and 1st hen (Golden Wyandottes) at great Nashville State Fair 1909.

Exhibition and utility stock for sale.  
**W. E. JOHNSON & SON**  
Box A Lexington, Ky.

Senator La Follette's Magazine  
This great progressive weekly, price \$1.00.  
sent with THE INDUSTRIOUS HEN one year for  
\$1.00. Address The Industrious Hen Co.,  
Knoxville, Tenn.



**EGGS at  $\frac{1}{2}$  PRICE**

I will accept a limited number of orders  
for eggs during January and February  
for future shipment at

**\$3.00 per Sitting**  
**\$5.00 for two Sittings**

These orders will be filled from my  
best exhibition matings—regular price  
\$5.00 sitting—better order today.

J. H. HENDERSON, Knoxville, Tenn.  
Breeder Brown Leghorns since 1890.

**EADY'S S. C. R. I. REDS**

For the last two years we have won in eight leading shows of the South. 1908, won at Gadsden, Mobile, Birmingham, Ala. and Houston, Texas. 1909, won at Tullahoma, Tenn., Meridian, Miss., Gadsden, and Birmingham, Ala. Some of these Reds scored as high as 94 by Judge Marshall. We mated our birds Jan. 1st for 1910. We have 10 grand pens. Every cock and cockerel in these pens has won in some of the shows. Most of these pens are made up from prize winning hens and pullets. We expect to raise a lot of show birds from these pens. We want you to try a few settings of our eggs this year. Our price is \$2.00 and \$5.00 per setting of 15; \$10.00 per hundred. We have a lot of good cockerels and a few pullets for sale. Write for my 1910 mating list. Address

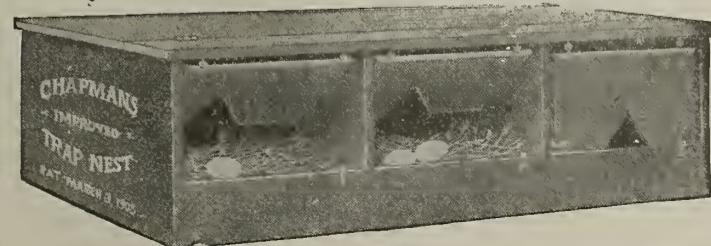
**C. W. EADY,** **Guntersville, Alabama**

**OUR ROYAL STRAIN OF  
Barred Plymouth Rocks and White Wyandottes**

are winning for us again this year at the big shows as they have done in the past. We won at Greenville, S. C., County Show; Augusta, Ga., and Spartanburg, S. C., the only shows we have made so far this fall.

Those wanting eggs from prize winners, had better write us at once.

**DES-RENA POULTRY YARDS,** **Greenville, S. C.**

**CHAPMAN'S IMPROVED TRAP NEST**

Is proclaimed by all poultrymen who have seen it to be the most practical and best made nest on the market today. Hundreds of letters and orders are coming in from all over the United States and without a word of dissatisfaction from a single customer; the reason is, because this nest can be depended upon to absolutely trap the hens.

The Chapman nest is made upon honor and constructed on mechanical principles that are bound to make it the leading Trap Nest of the world. A trial order will prove it and we guarantee to refund the money if it does not trap the birds. Write for catalogue.

3 Nest Size, \$3.00; 6 Nest Size, \$6.00. Chapman's Sanitary Fountain. Liberal discounts to agents.

**CHAPMAN TRAP NEST CO., Weld Bldg., Boston, Mass.**

**NOTICE**

WE ALSO  
MAKE  
CHICKEN  
CUTS.



Photos Retouched according to American Standard of Perfection Write for Prices.-----

KNOXVILLE ENGRAVING CO  
HENRY ST KNOXVILLE T.

**At Stud Fees \$20.00**

The Noted Airedales  
**CH. HARRY JONES**  
**BRIAR'S TEDDY**  
**HOT**

Jones and Teddy by ch. Bolton Woods  
Briar ex. ch. York Masterpiece bitches.  
Hot by ch. Clonmel Monarch ex. imp.  
Pretty Florrie and litter brother to that  
wonderful bitch, ch. Tanglewold Una.  
There are five champions in these three  
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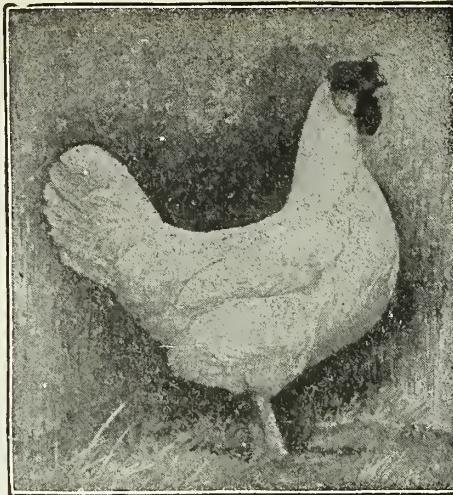
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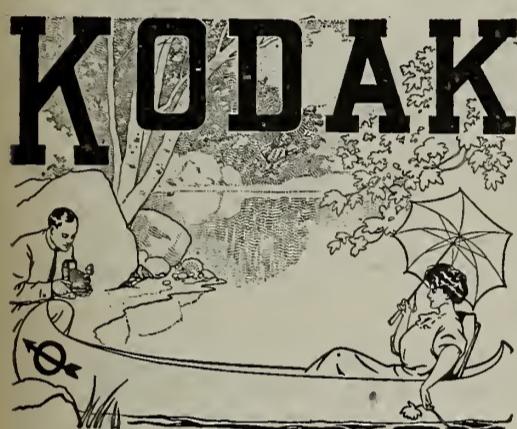
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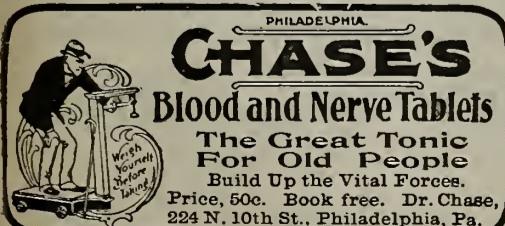
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WHITE COCHIN BANTAMS. Stock and eggs for sale. W. B. Romine, Pulaski, Tenn. 68

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BUCKEYES—Ideal, all purpose, dark red fowl. Unexcelled winter layers; hardy, fine for market. Small red comb, clean yellow legs and skin. Winners at leading shows. Prof. A. H. Weisberg, Nevada, Mo. 77

BUCKEYES exclusively, ninth year, Banner Reds, premier utility breed. Won first Cincinnati, 1907-8-9. S. G. Dunning, Camden, Ohio. 69

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BUFF DUCKS—the newest variety of the duck family. Barred Plymouth Rocks, Ringlet strain. Eggs cheap. Pineapple Poultry Farm, Kirbyton, Ky. 68

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GOLDEN PHEASANTS. The most beautiful birds in the world. Easy to keep, requiring no more care than chickens. One pair with full, rich plumage for sale. W. B. Romine, Pulaski, Tenn. 68

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IDEAL POULTRY AND STOCK FARM. We have the finest birds this season that we have ever mated, and can give you eggs from prize winning pens of Buff Orpingtons, Black Minorcas and Silver Wyandottes at \$1.50 for 15 eggs. Eggs from good matings in Silver Laced Wyandottes, White Wyandottes, Buff Orpingtons, Brown Leghorns, Black Minorcas, Rhode Island Reds, B. P. Rock, and M. Pekin Ducks at \$1.00 per 15. Guarantee a hatch of 10. Satisfaction or money back. C. E. Smith, Afton, Tenn. 71

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J. M. Workman, Burlington, N. C. 81

COLUMBIAN WYANDOTTES are unequalled for beauty and utility. Eggs from winners at Charlotte and Monroe and their best offspring. P. L. Hennessy, Shelby, N. C. 69

COLUMBIAN WYANDOTTES, good shape, color and size. A few nice cockerels for sale cheap to make room. W. B. Romine, Pulaski, Tenn. 68

PARTRIDGE WYANDOTTES — Stock or eggs. W. J. Seals, Childersburg, Ala. 70

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FINE BABY CHICKS FOR SALE—Eight cents each. Shipped anywhere. Safe arrival guaranteed. Eggs 75 cents per setting. Culver Poultry Farm, 930 Burnham, Benson, Nebr. 70

POULTRY FEEDS—Price per 100 pounds: Beef scraps, \$2.75; meat and bone, \$2.25; ground bone, \$2.25; hen scratching grains, \$1.85; chick scratching grains, \$2.00; poultry mash, \$1.80; pigeon grain, \$2.25; alfalfa clover meal, \$1.30; crushed oyster shells, 65c; crushed clam shells, 60c; mica crystal grit, 65c; pearl grit, 50c; medicated charcoal, \$1.50. The meat and bone, shells, grit and charcoal in both hen and chick size. Give us a trial order. J. G. Hermann & Co., Indianapolis, Ind. 71

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ILLUSTRATED CATALOGUE FREE. Alligators, monkeys, dogs, ferrets, guinea pigs, rabbits, gold-fish and birds. Wertz Bird and Seed Store, Sioux City, Iowa. 69

WALKER'S Roup and Cholera Cure, a specific for the prevention and cure of roup, cholera and bowel trouble. Price 50 cents postpaid. Gregor Fisher, Elkhorn, Wis. 68

STOCK WANTED—I want young stock for reselling. Write me what you have and prices. Ed. J. Heintz, 1209 Joseph St., New Orleans, La. 68

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A. J. STANBERY, Prop., R. 2, NEWPORT, TENN.

## Single Comb Rhode Island Red Cockerels for Sale

Eggs, \$5 for 15, from Pen No. 1, containing "Appalachian Chief", 1st cockerel at Newport and Morristown, 1910, and 2nd hen and 1st pullet at Knoxville, 1910, and 15 others of same breeding. From Pens Nos. 2 and 3, \$2 and \$1, respectively.



## RHODE ISLAND REDS

STOP at the SIGN of the RED HEN. Get EGGS to HATCH or HENS that LAY. Ridge View Farm Rhode Island REDS—Best Utility Reds in U. S. Get our SPECIAL OFFER.

ALFRED G. CLARK

Willoughby, Ohio

## S. C. R. I. Reds and S. C. White Leghorns

Eggs from best prize winners in Reds, \$3.00 per 15, \$5.00 per 30. Leghorns, \$2.00 per 15, \$3.50 per 30.

Day old Chicks. Pedigreed Scotch Collies.

BERNICE N. ANDERSON,

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## “GABHART’S S. C. WHITE LEGHORNS”

Just a moment, please:

I can mate a pair, trio or pen of S. C. White Leghorns that will start you right, or will refund your money and pay return charges. My latest winnings at Louisville (Dec. 1909), 1st and 2nd cockerel; 1st hen; 2nd and 3rd pullet; and 1st pen; silver cup and two other specials. Good breeding males and females, \$2; exhibition males and females, \$5 up. Eggs \$2 and \$3. Eggs from range stock \$5 per 100.

W. E. CABHART,

Box M,

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INDIAN STRAIN  
ROSE COMB RHODE ISLAND REDS Exclusively

My stock is from 1st prize winners at New York, Boston and Indianapolis. They have won for me, in keen competition, at South's best shows. Write for my booklet—it's free. Eggs \$3 and \$4 per 15. Satisfaction guaranteed.

E. W. ALLEN,

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## FOR BROWN LEGHORN AND R. I. RED

Eggs that will hatch, chicks that will grow and produce pullets that will lay, book your order with "Thornhill." He has, and is still breeding for the egg producer.

THORNHILL'S POULTRY FARM,

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## CHICK-A-DEE FARM

BRED TO LAY

## SINGLE COMB WHITE LEGHORNS

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## “RINGLETS” AND ROCKS FOR SALE

I have a very fine lot of early hatched cockerels and pullets—strictly high class exhibition birds a specialty—line bred for egg production, ideal in shape, size and color, of the following strains:

Thompson's "Ringlets," Duston's Wyandottes, Fishel's White Rocks, Tompkin's and Caswell's R. I. Reds, both combs, Buff Rock Nuggets, Cook's Buff Orpingtons. My show record has not been excelled. My late winnings at Burlington, Oct., 1909, in a strong class: nine firsts, ten seconds and a number of specials and thirds; won cash special offered by the State. Judge pronounced my R. I. Reds, Barred and White Rocks finest he had handled. Made almost a clean sweep with 46 prizes at Greensboro, Charlotte and Raleigh. Write for show records and prices.

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CHILDRESS'  
"WORLD'S BEST"  
EGG  
PRODUCER

CHILDRESS'  
WHITE LEGHORNS  
BEST LAYERS in the World  
PRIZE WINNERS

At Hagerstown, Cincinnati, Birmingham, Atlanta, Augusta, Chattanooga, Knoxville, Sweetwater, Bristol, Charleston and Asheville.

My matings guaranteed to produce prize winners and winter layers.

No stock to offer now. Eggs from \$2 to \$10 per setting. Mating list free.

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RUMPH'S BUFF ROCKS—"Birds of Quality"

My Birds are bred for the best results: Show Room and Utility. Try some of them if you desire to raise as good Buff Rocks as grow. Cockerels, Pullets and Hens at \$2.00 each and upwards according to quality. I have a few yards of selected Birds mated for the coming season, and after Dec. 1st will offer eggs assorted from those yards at \$3.00 per 15, and \$5.00 per 30. For further particulars write

LEWIS B. RUMPH { State Vice-President  
American Buff Plymouth Rock Club } MARSHALLVILLE, GA.

FALLIN'S BUFF ROCKS

won a total of 22 regular ribbons and 9 specials. Business depressions have compelled me to greatly reduce the size of my flock, but my customers will get the benefit, as I now own a smaller, but decidedly the best flock of my life. If at all interested in Buff Rocks, the best all purpose fowl on earth, write to

C. T. FALLIN, Southern Vice-President  
American Buff Plymouth Rock Club. GREENVILLE, S.C.

(We do not compete with those who have no reputation to lose)

Glenview Orpingtons

S. C. BUFF EXCLUSIVELY

I WILL NOT SELL EGGS

for hatching next season. If you want some of the best stock of Orpingtons in the South, BUY NOW.

Prices reasonable. Please state your exact wants.

B. S. HORNE, Keswick, Va.

Barred Plymouth Rocks for Sale

I AM offering my 1909 breeding stock for sale, consisting of seventy-five hens and seven cocks at such low prices, any one wanting fine birds can't afford to miss this opportunity. They must go as am compelled to have room and if you will write me, am sure you will buy when you get description and price. Remember Hale's Rocks have never been defeated in our best Southern shows. Now is your time to get foundation stock at less than half their value. Write today before too late as they are sure to go.

C. P. HALE, Barred Rock Specialist  
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IMPORTED INDIAN RUNNER DUCKS

280 EGG STRAIN—DIRECT FROM CALCUTTA, INDIA

One pen, 13 hens, laid 3,287 eggs in 1908, an average of over 252 per hen. One pen, 6 ducks, have laid from Jan. 1st to Nov. 30th this year, 1,316 eggs, an average of over 219 per duck in 11 months and are still laying. No stock for sale. Eggs \$1.00 to \$2.00 per setting; \$5.00 to \$10.00 per 100. Reference, Editor "THE HEN." Satisfaction guaranteed.

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Handy to best markets in country. 12,000,000 people within 150 miles.

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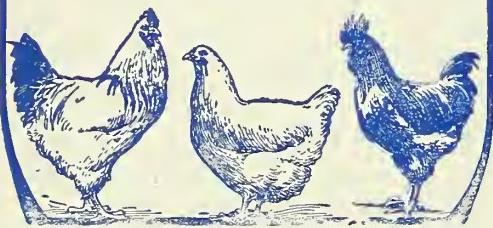
Location and other natural advantages not excelled anywhere. Climate is mild and healthful. Plowing was done in this locality during every month last winter. Winter eggs and early broilers bring highest prices in the markets.

Berries, fruits and vegetables produced with good success, insuring an income from the land during practically the entire year.

Large manufacturing town nearby. Title insured. White people only. Booklet free. Write today.

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**E C C S** I Have no Thousand Dollar Birds, Neither Have I the 200 Egg Strain, They don't Exist. **E G G S**  
I will send you a Setting of my best and good as the rest; Buff Orpingtons, B. P. Rocks, S. C. R. I. Reds, of 15 Eggs, guaranteed to be fertile and true to name, from healthy parents. For the next forty days I will book your order to be delivered after March 1st for the sum of \$1.00. **EAST CHARLOTTE S**  
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**EVERY CHICK CURED!**

Flomaton, Ala., 8-17-'09

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Gentlemen:—The Chicken Pox and Sore Head Remedy you sent me is all right and will cure sore head. Cured every bird I used it on.

The above is a part of a lengthy letter written us by Mr. D. C. O'Gwynn, and is a sample of many more we have on file. If you have any disease among your flock, Smith's Remedies will cure them, so tell us your troubles. We use Smith's Remedies every day and guarantee them.

Fancy Poland China pigs \$18.00 per pair. Fox Hound and Fox Terrier pups, none better, \$10.00 per pair.

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I promise you that my new low-priced 1910 BUFFALO INCUBATOR equals any high-priced Incubator, yet it will be sold for about HALF THE PRICE.

Often have I been urged to put a cheap incubator on the market, but I could never see the honesty of offering two grades. Invariably I have replied, "When I can make as good a machine as has always been associated with my name and sell it at a low price, I will stop manufacturing the high price machine."

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The new Buffalo Incubator is made of sheet metal and fibre board, indestructible and fire proof, an incubator as substantial and as well insulated as any I ever constructed.

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I am manufacturing a complete line of Colony Brooders—the best I ever made, irrespective of cost. I predict that the new Buffalo will be the most popular brooder ever offered poultrymen.

**Note These Money Saving Prices—**

50 Egg Size Buffalo Incubator	-	\$8.00	Buffalo Colony Brooder,	-	-	\$10.00
100 " "	-	11.00	Buffalo Indoor Brooder	-	-	7.00
200 " "	-	15.00				

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Write me about my complete line of portable, waterproofed Colony Houses, Incubator Houses, Brooder Houses, Summer Cottages, Garages—and everything for the best and cheapest poultry equipment.

I want every one of my quarter of a million poultry friends and every owner of a Model, Cyphers or Prairie State Incubator to write me to-day for my advance circulars on my new Buffalo Incubators and Brooders. I will inclose with it Bulletin No. 2, which tells of a new poultry discovery.

**CHAS. A. CYPHERS, President Buffalo Incubator Co., 4714 Ellicott Square, Buffalo, N. Y.**

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There are no strings tied to these prizes. The only condition is that you get the subscriptions and send them in before May the 1st.

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Made Famous by Egg laying and Winning prizes. 1907-'08, 33 Regular and 7 Specials. 1908-'09, 58 Regular and 8 Specials. So far this season at 3 shows have won 38 prizes. At Memphis, Tenn. against the New York breeders I was the only man South that won on Barred Plymouth Rocks, winning 1st Hen, 2nd Pen and 3rd Pullet.

**QUALITY:**—That is what I breed. If you want GOOD STOCK write for prices, in Trios and Pens. Have a lot of GOOD COCKERELS extra that will improve your stock. Book your orders now for early EGGS from LINE-BRED STOCK. Regular matings \$3 per 15. Special matings \$5 per 15.

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